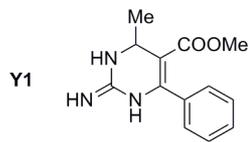
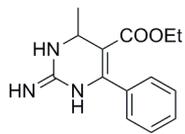


X1



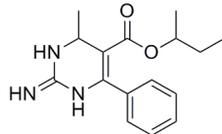
Mol. Wt.: 245.3

X2



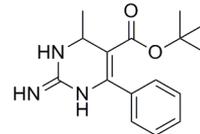
Mol. Wt.: 259.3

X3



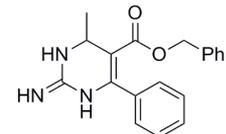
Mol. Wt.: 287.4

X4



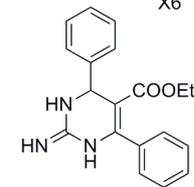
Mol. Wt.: 287.4

X5



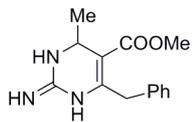
Mol. Wt.: 321.4

X6

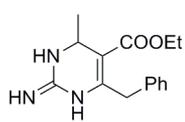


Mol. Wt.: 321.4

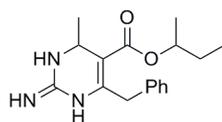
Y2



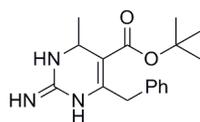
Mol. Wt.: 259.3



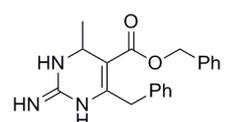
Mol. Wt.: 273.3



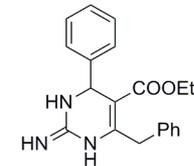
Mol. Wt.: 301.4



Mol. Wt.: 301.4

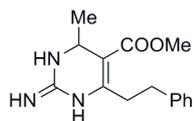


Mol. Wt.: 335.4

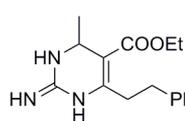


Mol. Wt.: 335.4

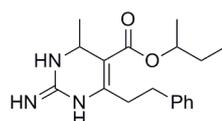
Y3



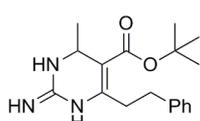
Mol. Wt.: 273.3



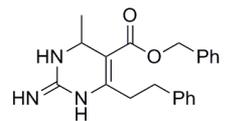
Mol. Wt.: 287.4



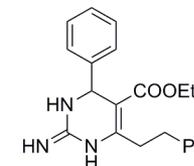
Mol. Wt.: 315.4



Mol. Wt.: 315.4

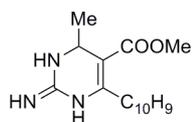


Mol. Wt.: 349.4

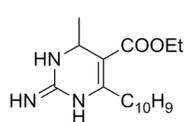


Mol. Wt.: 349.4

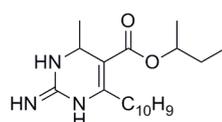
Y4



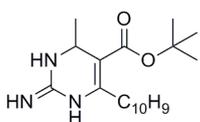
Mol. Wt.: 295.3



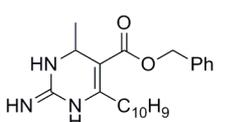
Mol. Wt.: 309.4



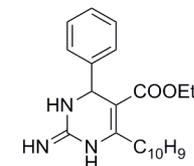
Mol. Wt.: 337.4



Mol. Wt.: 337.4

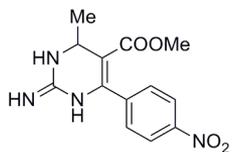


Mol. Wt.: 371.4

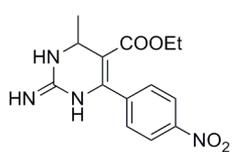


Mol. Wt.: 371.4

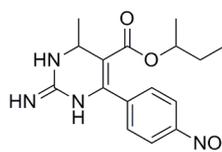
Y5



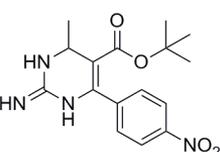
Mol. Wt.: 290.3



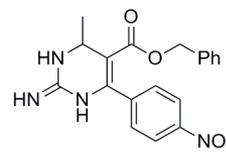
Mol. Wt.: 304.3



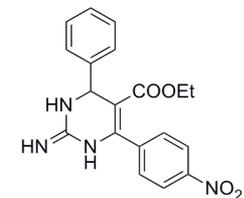
Mol. Wt.: 332.4



Mol. Wt.: 332.4

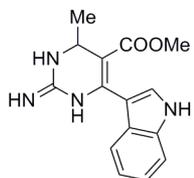


Mol. Wt.: 366.4

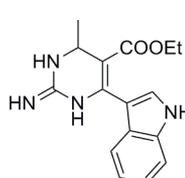


Mol. Wt.: 366.4

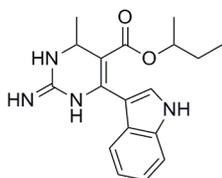
Y6



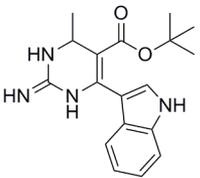
Mol. Wt.: 284.3



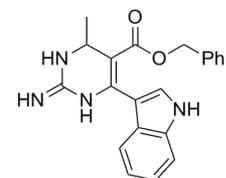
Mol. Wt.: 298.3



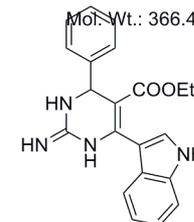
Mol. Wt.: 326.4



Mol. Wt.: 326.4



Mol. Wt.: 360.4



Mol. Wt.: 360.4

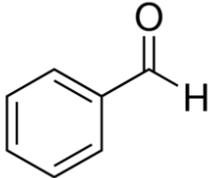
I reagenti a disposizione si trovano sul primo banco del laboratorio. Ciascuna libreria dovrà contenere 8 μmoli di ciascun prodotto

B1334 SIGMA-ALDRICH
Benzaldehyde
ReagentPlus®, ≥99%
Synonym: Bitter almond

MSDS SIMILAR PRODUCTS

CAS Number 100-52-7 | Linear Formula C₆H₅CHO | Molecular Weight 106.12 | Beilstein Registry Number 471223
EC Number 202-860-4 | MDL number MFCD00003299 | PubChem Substance ID 24891583 | eCl@ss 39023701

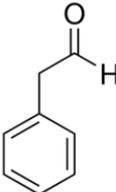
POPULAR DOCUMENTS: SPECIFICATION SHEET (PDF)



107395 ALDRICH
Phenylacetaldehyde
≥90%
Synonym: o-Tolylaldehyde

MSDS SIMILAR PRODUCTS

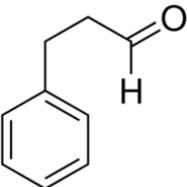
CAS Number 122-78-1 | Linear Formula C₈H₇CH₂CHO | Molecular Weight 120.15
Beilstein Registry Number 385791 | EC Number 204-574-5 | MDL number MFCD00006993
PubChem Substance ID 24846766 | eCl@ss 39023706



W288705 ALDRICH
Hydrocinnamaldehyde
≥95%, FG, FCC
Synonym: 3-Phenylpropionaldehyde

MSDS SIMILAR PRODUCTS

CAS Number 104-53-0 | Linear Formula C₉H₈CH₂CH₂CHO | Molecular Weight 134.18
Beilstein Registry Number 1071910 | Council of Europe no. 2013 | EC Number 203-211-8 | FEMA Number 2887
Flavis number 5.080 | MDL number MFCD00007021 | PubChem Substance ID 24901375

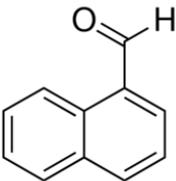


N109 ALDRICH
1-Naphthaldehyde
95%
Synonym: α-Naphthaldehyde

SDS SIMILAR PRODUCTS

CAS Number 66-77-3 | Linear Formula C₁₀H₇CHO | Molecular Weight 156.18 | Beilstein Registry Number 386082
EC Number 200-633-4 | MDL number MFCD00004003 | PubChem Substance ID 24897459

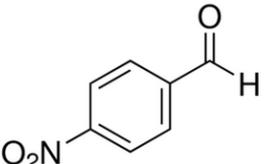
POPULAR DOCUMENTS: SPECIFICATION SHEET (PDF) | FTNMR (PDF)



130176 ALDRICH
4-Nitrobenzaldehyde
98%

MSDS SIMILAR PRODUCTS

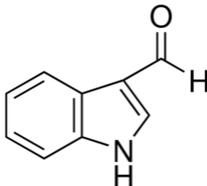
CAS Number 555-16-8 | Linear Formula O₂NC₆H₄CHO | Molecular Weight 151.12
Beilstein Registry Number 386796 | EC Number 209-084-5 | MDL number MFCD00007346
PubChem Substance ID 24847946



129445 ALDRICH
Indole-3-carboxaldehyde
97%
Synonym: β-Indolylaldehyde, 3-Indolylformaldehyde, 3-Formylindole, Indole-3-carbaldehyde, IIS 10118

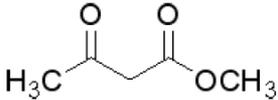
MSDS SIMILAR PRODUCTS

CAS Number 487-89-8 | Empirical Formula (Hill Notation) C₈H₇NO | Molecular Weight 145.16
Beilstein Registry Number 114117 | EC Number 207-665-8 | MDL number MFCD00005622
PubChem Substance ID 24847933



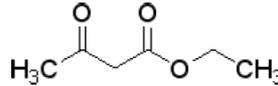
Product Name:
Methyl acetoacetate – ReagentPlus®, 99%

Product Number: 537365
CAS Number: 105-45-3
MDL: MFCD00008784
Formula: C₅H₈O₃
Formula Weight: 116.12 g/mol



Product Name:
Ethyl acetoacetate – ≥99%, FCC

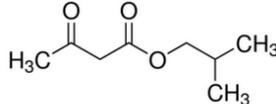
Product Number: W241504
CAS Number: 141-97-9
MDL: MFCD00009199
Formula: C₆H₁₀O₃
Formula Weight: 130.14 g/mol



00483 ALDRICH
Isobutyl acetoacetate
≥98.0% (GC)

MSDS SIMILAR PRODUCTS

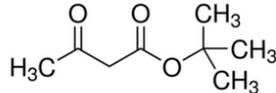
CAS Number 7779-75-1 | Linear Formula CH₃COCH₂COOCH₂CH(CH₃)₂ | Molecular Weight 158.19
Beilstein Registry Number 1761405 | EC Number 231-937-5 | MDL number MFCD00059349
PubChem Substance ID 24845044 | eCl@ss 39022304



537594 ALDRICH
tert-Butyl acetoacetate
reagent grade, 98%
Synonym: TBAA

MSDS SIMILAR PRODUCTS

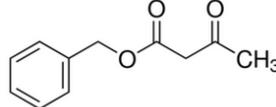
CAS Number 1694-31-1 | Linear Formula CH₃COCH₂COOC(CH₃)₃ | Molecular Weight 158.19



295892 ALDRICH
Benzyl acetoacetate
97%
Synonym: Acetoacetic acid benzyl ester

MSDS SIMILAR PRODUCTS

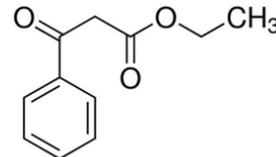
CAS Number 5396-89-4 | Linear Formula CH₃COCH₂COOC₆H₅ | Molecular Weight 192.21



281492 ALDRICH
Ethyl benzoylacetate
technical grade, 90%
Synonym: Benzoylacetic acid ethyl ester, Ethyl 3-oxo-3-phenylpropionate

SDS SIMILAR PRODUCTS

CAS Number 94-02-0 | Linear Formula C₉H₈COCH₂COOC₂H₅ | Molecular Weight 192.21
Beilstein Registry Number 389944 | EC Number 202-295-3 | MDL number MFCD00009196
PubChem Substance ID 24856976



T8656 SIGMA-ALDRICH

Thiourea

ACS reagent, ≥99.0%

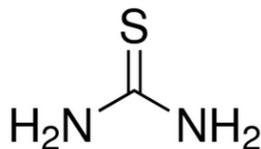
Synonym: Sulfourea, Thiocarbamide

MSDS

SIMILAR PRODUCTS

CAS Number 62-56-6 | Linear Formula NH_2CSNH_2 | Molecular Weight 76.12 | Beilstein Registry Number 605327

EC Number 200-543-5 | MDL number MFCD00008067 | PubChem Substance ID 24906549



P45907 SIGMA-ALDRICH

Piperazine

ReagentPlus®, 99%

Synonym: 1,4-Diazacyclohexane, Diethylenediamine

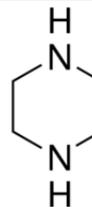
MSDS

SIMILAR PRODUCTS

CAS Number 110-85-0 | Empirical Formula (Hill Notation) $\text{C}_4\text{H}_{10}\text{N}_2$ | Molecular Weight 86.14

Beilstein Registry Number 102555 | EC Number 203-808-3 | MDL number MFCD00005953

PubChem Substance ID 24898556 | eCl@ss 39160301



441902 ALDRICH

Cesium carbonate

ReagentPlus®, 99%

Synonym: Carbonic acid dicesium

MSDS

SIMILAR PRODUCTS

CAS Number 534-47-8 | Linear Formula Cs_2CO_3 | Molecular Weight 325.82 | Beilstein Registry Number 4546405

EC Number 208-591-9 | MDL number MFCD00010957 | PubChem Substance ID 24867711



Merrifield resin load: 1.23 mmol/g

Attività	Temperatura	Durata	Carico	Workup	Chi
Loading della tiourea	70°C	16h	Venerdì 7/10	Lunedì 10/10	Tutti i gruppi
Reazioni di Knoevenagel	riflusso EtOH	2h	Lunedì 10/10	Lunedì 10/10	G1: X1, X2, X3. G2: X4, X5, X6. G3: Y1, Y2, Y3; G4: Y4, Y5, Y6.
Reazioni di Biginelli	90°C	16h	Martedì 11/10	Mercoledì 12/10	
Distacco in ammoniaca	riflusso acetonitrile	8h	Mercoledì 12/10	Mercoledì 12/10	
Introduzione alle misure di attività: mercoledì 12/10					
Misure di attività: giovedì 13/10 e date da concordare					



Pergamon

Bioorganic & Medicinal Chemistry Letters 10 (2000) 49–51

BIOORGANIC &
MEDICINAL
CHEMISTRY
LETTERS

Highly Versatile Solid Phase Synthesis of Biofunctional 4-Aryl-3,4-dihydropyrimidines Using Resin-Bound Isothiourea Building Blocks and Multidirectional Resin Cleavage[†]

C. Oliver Kappe*

24. Typical procedure: A mixture of resin bound 4-(benzyloxy)-benzyl chloride (**4**, 500 mg, 1.10 meq/g, Fluka) and thiourea (200 mg, 2.63 mmol) in anhydrous NMP (5 mL) was heated at 75 °C for 16 h. The resin was successively washed with NMP (2×5 mL), THF (3×5 mL), MeOH (3×5 mL), and CH₂Cl₂ (3×5 mL), and subsequently dried under high vacuum for 10

La reazione verrà effettuata su 400 mg di resina



Pergamon

Tetrahedron Letters 40 (1999) 7031–7033

TETRAHEDRON
LETTERS

New solid phase Knoevenagel catalyst

Julie Simpson,* Daniel L. Rathbone and David C. Billington

Pharmaceutical Sciences Research Institute, Aston University, Birmingham, B4 7ET, UK

Received 27 May 1999; revised 22 July 1999; accepted 27 July 1999

‡ Aldehyde (1 mmol) and active methylene (1 mmol) were dissolved in ethanol (10 ml). Piperidine (1 drop) or the solid phase catalyst (50 mg) was added and the reaction mixture was refluxed for 2 h. Solid phase catalyst was removed by filtration and excess ethanol was removed under vacuum.

Ogni libreria conterrà 8 μ moli di ciascun composto (48 μ moli totali)
Si lavorerà comunque in un volume di 2 ml di solvente, e con 20 mg di catalizzatore.
Sarà necessario preparare soluzioni madri dei reagenti in etanolo.

Reazione di Biginelli

h. The resulting resin **5** was treated with NMP (5 mL), enone **3a** (218 mg, 1.00 mmol), and Cs₂CO₃ (260 mg, 0.80 mmol) at 90 °C for 16 h. The resin was washed with NMP (2×5 mL), MeOH (3×5 mL), H₂O (3×5 mL), MeOH (3×5 mL), and air-dried to give polymer-bound dihydropyrimidine **6a**. This

Distacco dalla resina

on Cl loading of **4**) in >95% purity (¹H NMR). A second batch of the resin bound dihydropyrimidine **6a** (see above) was treated with a mixture (cleavage condition C) of dioxane (4 mL), MeCN (4 mL) and NH₄OAc (385 mg, 5 mmol) at reflux temperature for 8 h. The hot mixture was filtered from the resin and evaporated in vacuo. Trituration with H₂O left