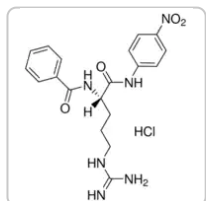


Type in Product Names, Product Numbers, or CAS Numbers to see suggestions.



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Documents

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B3279 ▶ **Sigma-Aldrich®**

N_α-Benzoyl-L-arginine 4-nitroanilide hydrochloride

>98% (TLC)

Synonym(s):

L-BAPA, L-BAPNA, BANI

Empirical Formula (Hill Notation):

C₁₉H₂₂N₆O₄ · HCl

CAS Number:

21653-40-7

Molecular Weight:

434.88

Beilstein:

4081878

EC Number:

244-505-6

MDL number:

MFCD00063682

PubChem Substance ID:

24891697

NACRES:

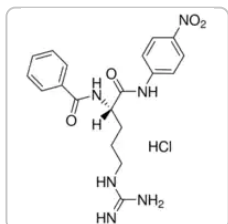
NA.32

SKU	Pack Size	Availability	Price	Quantity		
B3279-100MG	100 MG	🟢 Estimated to ship on December 07, 2022	€205.00	—	+	ⓘ
B3279-250MG	250 MG	🟢 Estimated to ship on December 07, 2022	€352.00	—	+	ⓘ
B3279-1G	1 G	🟢 Estimated to ship on December 07, 2022	€1,010.00	—	+	ⓘ

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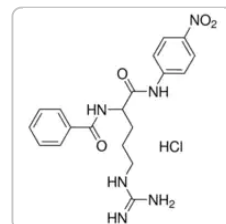
RECOMMENDED PRODUCTS



Sigma-Aldrich

B3133**N α -Benzoyl-L-arginine 4-nitroanilide hydrochloride**

≥99% (TLC), suitable for substrate for trypsin

[View Price and Availability](#)


Sigma-Aldrich

B4875**N α -Benzoyl-DL-arginine 4-nitroanilide hydrochloride**

≥98%

[View Price and Availability](#)

PROPERTIES

Quality Level

200

assay

>98% (TLC)

form

powder

solubility

acetone: water (1:1): 40.00-51.00 mg/mL, clear, colorless to yellow

storage temp.

-20°C

SMILES string

Cl[H].NC(=N)NCCC[C@H](NC(=O)c1ccccc1)C(=O)Nc2ccc(cc2)[N+][O-]

InChI

1S/C19H22N6O4.ClH/c20-19(21)22-12-4-7-16(24-17(26)13-5-2-1-3-6-13)18(27)23-14-8-10-15(11-9-14)25(28)29;/h1-3,5-6,8-11,16H,4,7,12H2,(H,23,27)(H,24,26)(H4,20,21,22);1H/t16-;/m0./s1

InChI key

DEOKFPFLXFNAON-NTISSMGPSA-N

Looking for similar products? Visit [Product Comparison Guide](#)

DESCRIPTION

General description

Na-Benzoyl-L-arginine 4-nitroanilide hydrochloride (L-BAPNA) is a colorless, chromogenic substrate for proteolytic enzymes such as trypsin, actinidin, and papain.

Application

Na-Benzoyl-L-arginine 4-nitroanilide hydrochloride has been used as substrate:

- to measure papain activity in spectrophotometric amidase assay
- to measure the inhibitory function of human cystatin C (HCC) on the protease activity of papain by colorimetric assay
- for trypsin

Packaging

100, 250 mg in glass bottle

1 g in glass bottle

Substrates

Chromogenic substrate for trypsin and other proteolytic enzymes.

SAFETY INFORMATION

Storage Class Code

11 - Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Flash Point(C)

Not applicable

Personal Protective Equipment

dust mask type N95 (US),

[Eyeshields](#), [Gloves](#)

DOCUMENTATION

Certificate of Analysis

Enter Lot Number to search for Certificate of Analysis (COA).

Lot Number

e.g. 023J5431

How to enter Lot Number (COA)

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Certificate of Origin

Enter Lot Number to search for Certificate of Origin (COO).

Lot Number

e.g. 023J5431

[How to enter Lot Number \(COO\)](#)

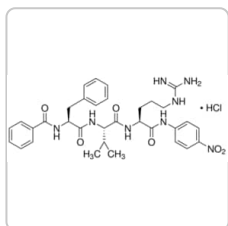
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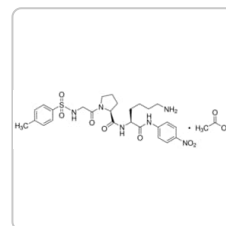


Sigma-Aldrich

B7632

N-Benzoyl-Phe-Val-Arg-*p*-nitroanilide hydrochloride
protease substrate

[View Price and Availability](#)



Sigma-Aldrich

T6140

N-(*p*-Tosyl)-Gly-Pro-Lys 4-nitroanilide acetate salt
plasmin substrate

[View Price and Availability](#)

PEER REVIEWED PAPERS

Efficient expression, purification and characterization of native human cystatin C in Escherichia coli periplasm

Zhou Y, et al.

Protein Expression and Purification, 111, 18- 22 (2015)

A chemical approach for detecting sulfenic acid-modified proteins in living cells

Reddie KG, et al.

Molecular Biosystems, 4(6), 521- 531 (2008)

Isolation, expression and characterization of a novel dual serine protease inhibitor, OH-TCI, from king cobra venom

He YY, et al.

Peptides, 29(10), 1692- 1699 (2008)

Increased Levels of Antinutritional and/or Defense Proteins Reduced the Protein Quality of a Disease-Resistant Soybean Cultivar.

Daniele O B Sousa et al.

Nutrients, 7(7), 6038-6054 (2015-07-25)

The biochemical and nutritional attributes of two soybean (*Glycine max* (L.) Merr.) cultivars, one susceptible (Seridó) and the other resistant (Seridó-RCH) to stem canker, were examined to assess whether the resistance to pathogens was related to levels of antinutritional and/or

Proteome of Soybean Seed Exudates Contains Plant Defense-Related Proteins Active against the Root-Knot Nematode *Meloidogyne incognita*.

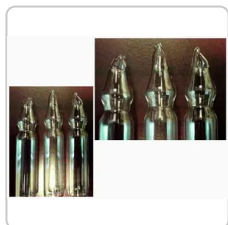
Raquel O Rocha et al.

Journal of agricultural and food chemistry, 63(22), 5335-5343 (2015-06-03)

Several studies have described the effects of seed exudates against microorganisms, but only few of them have investigated the proteins that have defensive activity particularly against nematode parasites. This study focused on the proteins released in the exudates of soybean

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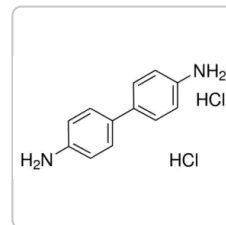
Sigma-Aldrich

B3306

Bisindolylmaleimide IV

≥98% (TLC), solid

[View Price and Availability](#)



Sigma-Aldrich

B3383

Benzidine dihydrochloride

≥99% (titration)

[View Price and Availability](#)



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