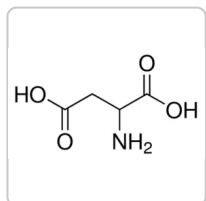


Type in Product Names, Product Numbers, or CAS Numbers to see suggestions.



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Documents

[↓ SDS](#)

[🔍 COO/COA](#)

[📄 Specification Sheet](#)

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A9006 ▶ **Sigma-Aldrich**

DL-Aspartic acid

★★★★★ (0)

≥99% (TLC)

Synonym(s):

(±)-2-Aminosuccinic acid

Linear Formula:

HOOCCH₂CH(NH₂)COOH

CAS Number: **617-45-8**

Molecular Weight: 133.10

Beilstein: 774618

EC Number: **210-513-3**

MDL number: **MFCD00063083**

PubChem Substance ID: **24891394**

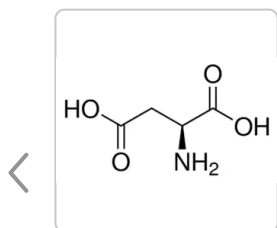
NACRES: NA.26

SKU	Pack Size	Availability	Price	Quantity		
A9006-100G	100 G	 Only 3 left in stock (more on the way) Details...	€28.20	− +		
A9006-500G	500 G	 Estimated to ship on October 17, 2022	€91.50	− +		
A9006-1KG	1 KG	 Only 5 left in stock (more on the way) Details...	€152.00	− +		

[Request a Bulk Order](#)

[Add to Cart](#)

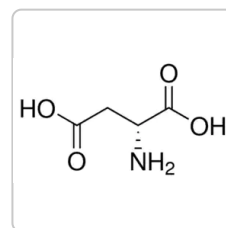
RECOMMENDED PRODUCTS



Sigma-Aldrich

A9256**L-Aspartic acid**

reagent grade, ≥98% (HPLC)

[View Price and Availability](#)

Sigma-Aldrich

219096**D-Aspartic acid***ReagentPlus®*, 99%[View Price and Availability](#)

PROPERTIES

Quality Level	200
assay	≥99% (TLC)
form	powder
color	white
mp	>300 °C (lit.)
solubility	1 M HCl: soluble

application(s)	cell analysis peptide synthesis
SMILES string	<chem>NC(CC(O)=O)C(O)=O</chem>
InChI	1S/C4H7NO4/c5-2(4(8)9)1-3(6)7/h2H,1,5H2,(H,6,7)(H,8,9)
InChI key	CKLJMWZTZZHCS-UHFFFAOYSA-N

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

Related Categories

[Amino Acids](#)

[Amino Acids, Resins & Reagents for Peptide Synthesis](#)

DESCRIPTION

Packaging

100, 500 g in poly bottle

1 kg in poly bottle

Biochem/physiol Actions

DL-Aspartic acid (DL-Asp) is a racemic mixture of the proteinogenic amino acid L-aspartate and the non-proteinogenic amino acid D-aspartate. DL-Aspartic acid is used in studies on factors and conditions that enhance semen and sperm quality.

RELATED PRODUCTS

Application

G004664

HPLC Analysis of Aspartic Acid Enantiomers on Astec® CLC-L, Trace Level Detection, application for HPLC

[View Pricing](#)

G005333

HPLC Analysis of Aspartic Acid Enantiomers on Astec® CHIROBIOTIC® T (Methanol Mobile Phase), application for HPLC

[View Pricing](#)

SAFETY INFORMATION

Storage Class Code

13 - Non Combustible Solids

WGK

WGK 1

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)

Search

Certificate of Origin

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

Lot Number

e.g. 023J5431

How to enter Lot Number (COO)

Search

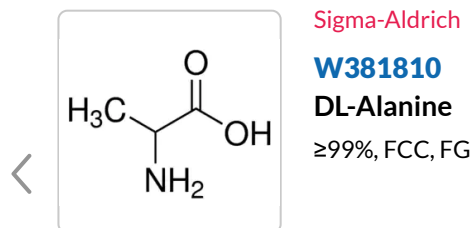
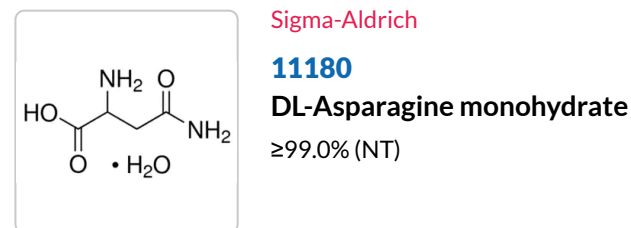
More Documents

Spectra - ATR-IR

Spectra for FT-IR Raman

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PEER REVIEWED PAPERS

[The first water-based synthesis of Ce\(IV\)-MOFs with saturated chiral and achiral C4-dicarboxylate linkers.](#)

Jannick Jacobsen et al.

Dalton transactions (Cambridge, England : 2003), 48(23), 8433-8441 (2019-05-23)

Six different chiral and achiral alkane dicarboxylic C4-acids, i.e. succinic acid (H2SUC), dl-2-methylsuccinic acid (H2MS), 2,3-dimethylsuccinic acid (H2DMS) and aspartic acid (d-, l- and dl-H2ASP), were used to obtain Ce(IV)-MOFs via microwave assisted reactions. In water-based syntheses, MOFs with three

[Docosahexaenoic acid inhibits proteolytic processing of sterol regulatory element-binding protein-1c \(SREBP-1c\) via activation of AMP-activated kinase.](#)

Xiong Deng et al.

Biochimica et biophysica acta, 1851(12), 1521-1529 (2015-09-04)

In hyperinsulinemic states including obesity and T2DM, overproduction of fatty acid and triglyceride contributes to steatosis of the liver, hyperlipidemia and hepatic insulin resistance. This effect is mediated in part by the transcriptional regulator sterol responsive element binding protein-1c (SREBP-1c)

SAMHD1's protein expression profile in humans.

Sarah Schmidt et al.

Journal of leukocyte biology, 98(1), 5-14 (2015-02-04)

The deoxynucleoside triphosphate triphosphohydrolase and 3' → 5' exonuclease SAMHD1 restricts HIV-1 infection in noncycling hematopoietic cells in vitro, and SAMHD1 mutations are associated with AGS. Little is known about the in vivo expression and functional regulation of this cellular

Preparation and Utilization of Freshly Isolated Human Detrusor Smooth Muscle Cells for Characterization of 9-Phenanthrol-Sensitive Cation Currents.

John Malysz et al.

Journal of visualized experiments : JoVE, (155) (2020-02-18)

Detrusor smooth muscle (DSM) cells present within the urinary bladder wall ultimately facilitate urine storage and voiding. Preparation of the viable, fresh, and isolated DSM cells presents an important technical challenge whose achievement provides optimal cells for subsequent functional and

Direct metal recognition by guanine nucleotide-exchange factor in the initial step of the exchange reaction.

Tamami Uejima et al.

Acta crystallographica. Section D, Biological crystallography, 69(Pt 3), 345-351 (2013-03-23)

Rab small GTPases regulate vesicle transport in eukaryotes by interacting with various effectors. Guanine nucleotide-exchange factor (GEF) catalyzes the transition from inactive GDP-bound Rab to active GTP-bound Rab. The existence of several GDP-bound intermediates containing the Arabidopsis thaliana Rab5 homologue

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PROTOCOLS AND ARTICLES

Chromatograms

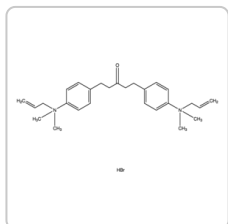
HPLC Analysis of Aspartic Acid Enantiomers on Astec® CHIROBIOTIC® T (Methanol Mobile Phase)

application for HPLC

HPLC Analysis of Aspartic Acid Enantiomers on Astec® CLC-L, Trace Level Detection

application for HPLC

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A9013

1,5-Bis(4-allyldimethylammoniumphenyl)pentan-3-one dibromide

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Sigma-Aldrich

A9024

α 1-Antitrypsin from human plasma
salt-free, lyophilized powder

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Reviews



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Questions

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TECHNICAL SERVICE

Our team of scientists has experience in all areas of research including Life Science, Material Science, Chemical Synthesis, Chromatography, Analytical and many others.

Contact Technical Service

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