

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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(S)-2-Aminohexanedioic acid

MedChemExpress

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| Cat. No.: | HY-W01366 | 5 | | | |
|--------------------|------------------------------------------------|-------|----------|--|--|
| CAS No.: | 1118-90-7 | | | | |
| Molecular Formula: | C ₆ H ₁₁ NO ₄ | | | | |
| Molecular Weight: | 161.16 | | | | |
| Target: | Biochemical Assay Reagents | | | | |
| Pathway: | Others | | | | |
| Storage: | Powder | -20°C | 3 years | | |
| | | 4°C | 2 years | | |
| | In solvent | -80°C | 6 months | | |
| | | -20°C | 1 month | | |

SOLVENT & SOLUBILITY

| DMSO : 10 mg/mL (6 | i2.05 mM; Need ultrasonic) | | | | |
|------------------------------|-------------------------------|-----------|------------|------------|--|
| | Solvent Mass Concentration | 1 mg | 5 mg | 10 mg | |
| Preparing Stock Solutions | 1 mM | 6.2050 mL | 31.0251 mL | 62.0501 mL | |
| | 5 mM | 1.2410 mL | 6.2050 mL | 12.4100 mL | |
| | 10 mM | 0.6205 mL | 3.1025 mL | 6.2050 mL | |

| Description | (S)-2-Aminohexanedioic acid is a biochemical reagent that can be used as a biological material or organic compound for life science related research. | | | |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| In Vitro | Ki value of 209 μML-α-Aminoadipic Acid is a glutamine synthetase inhibitor. Glutamine synthetase is an enzyme that plays an essential role in the metabolism of nitrogen by catalyzing the condensation of glutamate and ammonia to form glutamine.In vitro: Previous study found that DL-and L-alpha-aminoadipic acid (alpha-AA) were specific gliotoxins in vitro. HPLC analysis of cultures incubated with D-or L-alpha-AA and DL-[14C]-alpha-AA autoradiograms conducted in the presence of D-or L-alpha-AA suggested a stereospecificity of astroglial L-alpha-AA uptake. Both the uptake of alpha-AA by astrocytes and alpha-AA-induced gliotoxicity were sodium dependent. Another study found that the L-isomer of alpha aminoadipate was able to competitively inhibit the transport protein, whereas the D-isomer of alpha aminoadipate was ineffective. Moreover, it was found that L-alpha aminoadipate was a competitive inhibitor of both glutamine synthetase, and gamma- glutam ylcysteine synthetase. In Constrast, the D-isomer of alpha aminoadipate was a far weaker inhibitor of either enzyme.In vivo: Animal study showed that La-aminoadipic acid could lower the levels of endogenous extracellular kynurenic acid in the hippocampus in a dose-dep endent fashion), though the effect of La-aminoadipic acid seemed to be less | | | |

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H₂N H

OH

HO

|| 0 pronounced than its reduction of de novo produced kynurenic acid . Clinical trial: So far, no clinical study has been conducted. References: Huck, S. ,Grass, F., and Hrtnagl, H. The glutamate analogue α-aminoadipic acid is taken up by astrocytes before exerting its gliotoxic effect in vitro. Journal of Neuroscience 4(10), 2650-2657 (1984). McBean GJ. Inhibition of the glutamate transporter and glial enzymes in rat striatum by the gliotoxin, alpha aminoadipate. Br J Pharmacol. 1994 Oct;113(2):536-40. Wu HQ, Ungerstedt U, Schwarcz R. L-alpha-aminoadipic acid as a regulator of kynurenic acid production in the hippocampus: a microdialysis study in freely moving rats. Eur J Pharmacol. 1995 Jul 25;281(1):55-61. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Caution: Product has not been fully validated for medical applications. For research use only.

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