

Product Data Sheet

Product Name: H-Asp-OH

Cat. No.: GA11120

Chemical Properties

Cas. No. 56-84-8

Chemical Name (2S)-2-aminobutanedioic acid

SMILES C(C(C(=O)O)N)C(=O)O

Formula $C_4H_7NO_4$

M.Wt 133.1

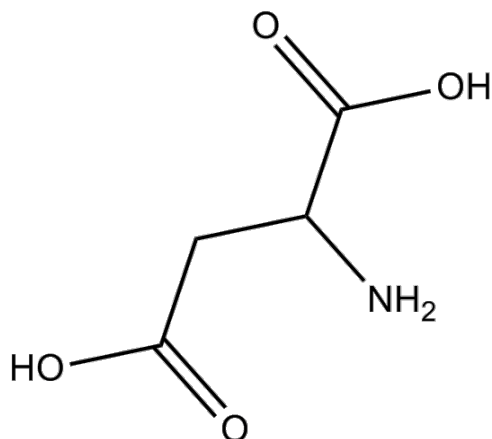
Solubility 100 mg/mL in 1M NaOH(Need ultrasonic,Alkaline dissolution (adjusted with NaOH, pH $\approx$ 11)); 2 mg/mL in Water (ultrasonic and warming and heat to 60°C).

Storage Store at -20° C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

L-Aspartic acid is an amino acid, shown to be a suitable prodrug for colon-specific drug delivery.

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

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L-Aspartic acid is shown to be a suitable prodrug for colon-specific drug delivery[1]. L-[3H]Asp remaining in the brain at 5 min is increased by 206 and 178% by preadministration of 100 mM L-Aspartic acid and 100 mM L-Glu, respectively, whereas 100 mM D-Asp does not affect L-[3H]Asp efflux transport. That value for L-[3H]Glu at 20 min is increased by 145 and 156% by coadministration with 100 mM L-Aspartic acid and 100 mM L-Glu, respectively, but not by D-Asp. It is interesting that the apparent efflux rate of L-Aspartic acid across the BBB is sevenfold faster than that of L-Glu[2].

References:

- [1]. Leopold CS, et al. In vivo pharmacokinetic study for the assessment of poly(L-aspartic acid) as a drug carrier for colon-specific drug delivery. J Pharmacokinet Biopharm. 1995 Aug;23(4):397-406.
- [2]. Hosoya K, et al. Blood-brain barrier produces significant efflux of L-aspartic acid but not D-aspartic acid: in vivo evidence using the brain efflux index method. J Neurochem. 1999 Sep;73(3):1206-11.

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