

Product Data Sheet

Product Name: (S)-Aspartimide

Cat. No.: GC48966

Chemical Properties

Cas. No. 73537-92-5

SMILES N[C@@H]1C(NC(C1)=O)=O

Formula C₄H₆N₂O₂

M.Wt 114.1

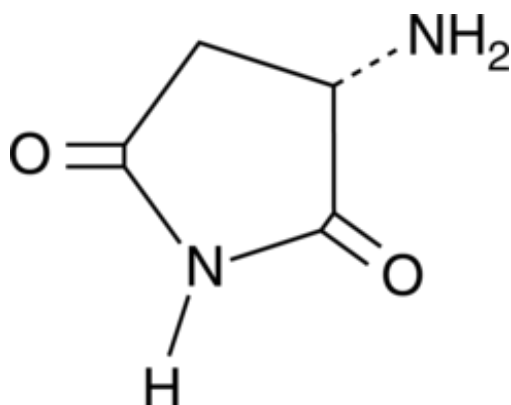
Solubility

Storage -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

(S)-Aspartimide is a byproduct formed during solid-phase peptide synthesis (SPPS) of aspartic acid-containing peptides.¹ Aspartimide is formed by cyclization of aspartic acid during Fmoc removal or peptide coupling.²

1. Ruczyński, J., Lewandowska, B., Mucha, P., et al. Problem of aspartimide formation in Fmoc-based solid-phase peptide synthesis using Dmb group to protect side chain of aspartic acid. *J. Pept. Sci.* 14(3)335-341 (2008)
2. Neumann, K., Farnung, J., Baldauf, S., et al. Prevention of aspartimide formation during peptide synthesis using cyanosulfonylides as carboxylic acid-protecting groups. *Nat. Commun.* 11(1)982 (2020)

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

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