

Product Data Sheet

Product Name: H-Aib-OH

Cat. No.: GA10613

Chemical Properties

Cas. No. 62-57-7

Chemical Name 2-amino-2-methylpropanoic acid

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

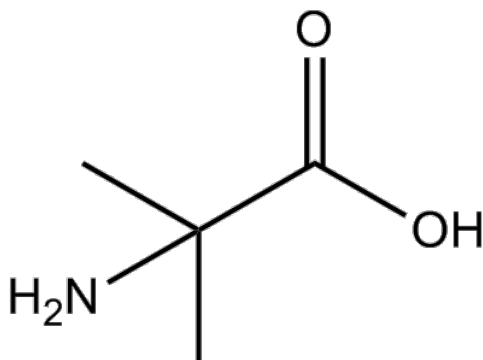
Formula C4H9NO2 M.Wt 103.12

Solubility Soluble in water or 1% acetic acid Storage Desiccate 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

NSC 16590 inhibits the production of endogenous ethylene in the cotyledonary segments of cocklebur.

NSC 16590 (α -Aminoisobutyric acid, AIB) inhibits the production of endogenous ethylene in the cotyledonary segments of cocklebur (*Xanthium pennsylvanicum* Wallr.) seeds most strongly. NSC 16590 at 4 mM inhibits the formation of ethylene by about 50%, although the O₂ uptake of the segments is not affected even at 20 mM. NSC 16590 also inhibits ethylene formation in the stem

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

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segments of etiolated pea (*Pisum sativum* L. cv. Alaska) seedlings. Kinetic analysis with cell free extracts from etiolated pea shoots reveals that NSC 16590 competitively inhibits the conversion of ACC into ethylene[1].

References:

[1]. Shigeru Satoh, et al. α -Aminoisobutyric acid: A probable competitive inhibitor of conversion of 1-aminocyclopropane-1-carboxylic acid to ethylene. *Plant and Cell Physiology*, Volume 21, Issue 6, 1 September 1980, Pages 939-949.

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