

Product Data Sheet

Product Name: Leu-AMS

Cat. No.: GC32121

Chemical Properties

Cas. No. 288591-93-5

SMILES O[C@@H]([C@H]([C@H](N1C=NC2=C1N=CN=C2N)O3)O)[C@H]3COS(=O)(NC([C@@H](N)CC(C)C)=O)=O

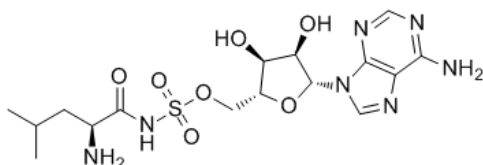
Formula $C_{16}H_{25}N_7O_7S$ M.Wt 459.48

Solubility DMSO : ≥ 49.17 mg/mL (107.01 mM) 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

Leu-AMS is a potent inhibitor of leucyl-tRNA synthetase (LRS) with an IC_{50} of 22.34 nM and inhibits the growth of bacteria.

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

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Leu-AMS is proved to be a potent inhibitor of Leucyl-tRNA Synthetase (LRS) with an IC₅₀ value of 22.34 nM. Leu-AMS is highly cytotoxic in both cancer cells and normal cells. Leu-AMS does not affect S6 kinase (S6K) phosphorylation at all. Leu-AMS inhibits the catalytic activity of LRS but does not affect the leucine-induced mTORC1 activation[1].

[1]. Yoon S, et al. Discovery of Leucyladenylate Sulfamates as Novel Leucyl-tRNA Synthetase (LRS)-Targeted Mammalian Target of Rapamycin Complex 1 (mTORC1) Inhibitors. J Med Chem. 2016 Nov 23;59(22):10322-10328.

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