

Product Data Sheet

Product Name: Dacisteine

Cat. No.: GC39368

Chemical Properties

Cas. No. 18725-37-6

SMILES CC(SC[C@@H](C(O)=O)NC(C)=O)=O

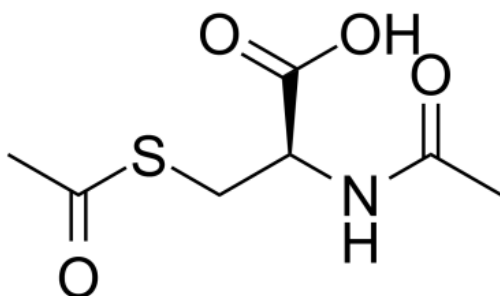
Formula $C_7H_{11}NO_4S$ M.Wt 205.23

Solubility DMSO: ≥ 250 mg/mL (1218.15 mM) Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

Dacisteine (N,S-Diacetyl-L-cysteine) is a cysteine derivative and displays a less New Delhi metallo-beta-lactamase-1 (NDM-1) inhibitor with an IC_{50} value of $1000 \mu M$ [1]. Dacisteine can be used for the treatment of cardiovascular and cerebrovascular diseases caused by platelet aggregation [2].

[1]. Cui-Gai Bai¹, et al. Cysteine and Its Derivatives as New Delhi Metallo-beta-lactamase-1 Inhibitors. *Current Enzyme Inhibition*, 2015, 11, 46-57 [2]. FanKe, et al. Application of compound of thioether acid structure in preparing anti-platelet aggregation drugs. Patent WO2019007015A1.

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

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