
Product Data Sheet

Product Name: N-Acetyl-L-leucyl-L-leucyl-L-methional

Cat. No.: GC50002

Chemical Properties

Cas. No. 145757-50-2

SMILES O=C(C)NC(C(NC(C(NC(C([H])=O)CCSC)=O)CC(C)C)=O)CC(C)CFormula $C_{19}H_{35}N_3O_4S$ M.Wt 401.56Solubility Soluble in DMSO 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**

Very potent inhibitor of cathepsin L ($K_i = 0.6$ nM) and the strongest inhibitor of cathepsin B ($K_i = 100$ nM) amongst the peptide aldehydes. Also inhibits processing of malaria aspartic hemoglobinases plasmepsins I and II in vitro.

Francis et al (1997) Biosynthesis and maturation of the malaria aspartic hemogloninases plasmepsins I and II. J.Biol.Chem. 272 14961 PMID:9169469 |Sasaki et al (1990) Inhibitory effect of di- and tripeptidyl aldehydes on calpains and cathepsins. J.Enzyme Inhib. 3 195 PMID:2079636

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

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