
Product Data Sheet

Product Name: H-Cys(Me)-OH

Cat. No.: GA10800

Chemical Properties

Cas. No. 1187-84-4

Chemical Name (R)-2-amino-3-(methylthio)propanoic acid

SMILES O=C([C@@](C([H])([H])SC([H])([H])[H])([H])N([H])[H])O[H]Formula C₄H₉NO₂S

M.Wt 159.3

Solubility H₂O : 30 mg/mL (221.93 mM; Need ultrasonic and warming)

Storage Store at RT

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-Methyl-L-cysteine is a natural product that acts as a substrate in the catalytic antioxidant system mediated by methionine sulfoxide reductase A (MSRA), with antioxidative, neuroprotective, and anti-obesity activities.

S-Methyl-L-cysteine (100 mg/kg) results in significant attenuation of plasma glucose, insulin, tumor necrosis factor-alpha, insulin resistance and improved antioxidant enzyme activities[1].

References:

[1]. Thomas S, et al. Effect of s-methyl-L-cysteine on oxidative stress, inflammation and insulin resistance in male wistar rats fed with high fructose diet. Iran J Med Sci. 2015 Jan;40(1):45-50.

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

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