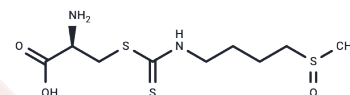


S-(N-Methylsulfinylbutylthiocarbamoyl)-L-cysteine

Chemical Properties

CAS No. : 364083-21-6
 Formula: C₉H₁₈N₂O₃S₃
 Molecular Weight: 298.45
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	S-(N-Methylsulfinylbutylthiocarbamoyl)-L-cysteine (SFN-Cys) is an isothiocyanate derivative, functioning as an active metabolite of sulforaphane, a class I and II histone deacetylase (HDAC) inhibitor, and anticancer agent. This compound is generated from sulforaphane through intermediates - DL-sulforaphane glutathione and sulforaphane cysteinylglycine - via the mercapturic acid pathway enzymes. At a concentration of 20 μ M, SFN-Cys diminishes invasion and migration of U87MG and U373 MG glioblastoma cells as observed in wound healing and chamber assays. Furthermore, at 45 μ M, it significantly lowers the expression of α -tubulin, β III-tubulin, stathmin 1, and X-linked inhibitor of apoptosis (XIAP), and also reduces cell density in paclitaxel-resistant A549 lung cancer cells (A549/T). Additionally, when used at 30 μ M, SFN-Cys prompts apoptosis and cell cycle arrest at the G2/M phase in U87MG and U373 MG cells.
Targets(IC50)	Others, Drug Metabolite

Solubility Information

Solubility	Methanol: slightly soluble Ethanol: slightly soluble H ₂ O: slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3506 mL	16.7532 mL	33.5064 mL
5 mM	0.6701 mL	3.3506 mL	6.7013 mL
10 mM	0.3351 mL	1.6753 mL	3.3506 mL
50 mM	0.067 mL	0.3351 mL	0.6701 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481