

Product Data Sheet

Product Name: IA-Alkyne

Cat. No.: GC50641

Chemical Properties

Cas. No. 930800-38-7

SMILES ICC(=O)NCCCCC#C

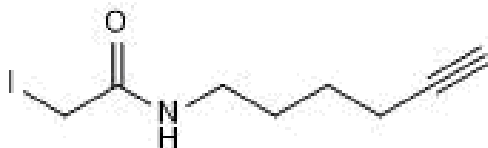
Formula C₈H₁₂INO M.Wt 265.09

Solubility DMSO : 100 mg/mL (377.23 mM; Need ultrasonic) Storage Store at -20°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or Condition blue ice upon request.

Structure



Background

Broad spectrum cysteine reactive probe. Covalently binds cysteine residues in proteins. Can be utilized for covalent fragment-based ligand discovery (FBLD) and to identify Zn²⁺-binding cysteines. Used as a click-chemistry handle to attach a fluorophore or biotin to reactive cysteines in proteins for visualization by in-gel fluorescence or identification by mass spectrometry, respectively. Covalently binds cysteine residues in and activates TRPA1 channels.

Backus et al (2016) Proteome-wide covalent ligand discovery in native biological systems. Nature 534 570 PMID:27309814 | Pace and Weerapana et al (2014) A competitive chemical-proteomic platform to identify zinc-binding cysteines. ACS Chem.Biol. 9 258 PMID:24111988 | Macpherson et al (2007) Noxious compounds activate TRPA1 ion channels through covalent modification of cysteines. Nature 445 541 PMID:17237762

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

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