

Paracetamol-cysteine TFA

Chemical Properties

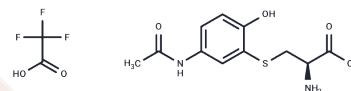
CAS No. : 1331891-93-0

Formula: C₁₃H₁₅F₃N₂O₆S

Molecular Weight: 384.33

Storage: Store at low temperature
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	Paracetamol-cysteine TFA (APAP-Cys TFA) is a metabolite of Paracetamol, a biomarker of paracetamol metabolism.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or 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	2.6019 mL	13.0097 mL	26.0193 mL
5 mM	0.5204 mL	2.6019 mL	5.2039 mL
10 mM	0.2602 mL	1.301 mL	2.6019 mL
50 mM	0.052 mL	0.2602 mL	0.5204 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.

Reference

Heard K, et al. Paracetamol (acetaminophen) protein adduct concentrations during therapeutic dosing. Br J Clin Pharmacol. 2016 Mar;81(3):562-8.

O'Malley GF, et al. Protein-Derived Acetaminophen-Cysteine Can Be Detected After Repeated Supratherapeutic Ingestion of Acetaminophen in the Absence of Hepatotoxicity. J Med Toxicol. 2015 Sep;11(3):317-20.

Stern ST, et al. Contribution of acetaminophen-cysteine to acetaminophen nephrotoxicity II. Possible involvement of the gamma-glutamyl cycle. Toxicol Appl Pharmacol. 2005 Jan 15;202(2):160-71.

Yoon E, et al. Acetaminophen-Induced Hepatotoxicity: a Comprehensive Update. J Clin Transl Hepatol. 2016 Jun 28;4(2):131-42.

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