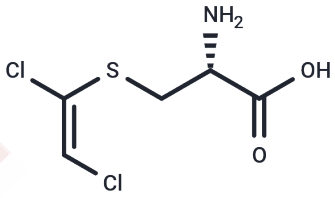
Data Sheet (Cat.No.T36401)

TargetMol

DCVC

Chemical Properties



CAS No. : 13419-46-0

Formula: C5H7Cl2NO2S

Molecular Weight: 216.09

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	DCVC inhibits pathogen-stimulated TNF-α in human extra placental membranes in vitro.
Targets(IC50)	Others,TNF
In vitro	In vitro, DCVC inhibits pathogen stimulated cytokine release from tissue punch cultures. DCVC (5-50 μM) significantly inhibits LTA-, LPS-, and GBS-stimulated cytokine release from tissue cultures as early as 4 h ($P \leq 0.05$). In contrast, TCA (up to 500 μM) does not inhibit LTA-stimulated cytokine release from tissue punches. DCVC effects on LTA-stimulated and LPS-stimulated TNF-α release from tissue punch cultures of extraplacental membranes. DCVC effects on GBS-stimulated release of pro-inflammatory cytokines from extraplacental membranes in transwell cultures.

Solubility Information

Solubility	DMSO: 23 mg/mL (106.44 mM),Sonication is recommended. H2O: 1.03 mg/mL (4.77 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6277 mL	23.1385 mL	46.277 mL
5 mM	0.9255 mL	4.6277 mL	9.2554 mL
10 mM	0.4628 mL	2.3139 mL	4.6277 mL
50 mM	0.0926 mL	0.4628 mL	0.9255 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

Boldenow E, et al. The trichloroethylene metabolite S-(1,2-dichlorovinyl)-l-cysteine but not trichloroacetate inhibits pathogen-stimulated TNF-α in human extraplacental membranes in vitro. Reprod Toxicol. 2015 Apr;52:1-6.

Lash LH, et al. Multigenerational study of chemically induced cytotoxicity and proliferation in cultures of human proximal tubular cells. Int J Mol Sci. 2014 Nov 18;15(11):21348-65.

Yoo HS, et al. Comparative analysis of the relationship between trichloroethylene metabolism and tissue-specific toxicity among inbred mouse strains: kidney effects. J Toxicol Environ Health A. 2015;78(1):32-49.

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