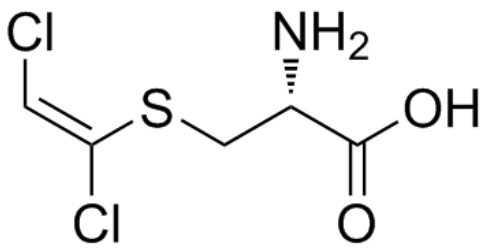
Product Data Sheet

Product Name: DCVC
Cat. No.: GC33934

Chemical Properties

Cas. No.	13419-46-0		
SMILES	N[C@H](C(O)=O)CS/C(Cl)=C\Cl		
Formula	$C_5H_7Cl_2NO_2S$	M.Wt	216.09
Solubility	DMSO : 23 mg/mL (106.44 mM);Water : 1.034 mg/mL (4.79 mM)	Storage	Store at -20°C
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

DCVC inhibits pathogen-stimulated TNF-α in human extra placental membranes in vitro.Target: TNF-

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αin 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.

[1]. 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. [2]. 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. [3]. 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.

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