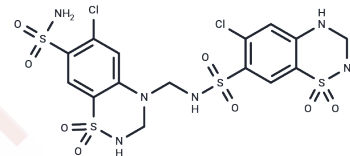


Hydrochlorothiazide Impurity C

Chemical Properties

CAS No. :	402824-96-8
Formula:	C ₁₅ H ₁₆ Cl ₂ N ₆ O ₈ S ₄
Molecular Weight:	607.49
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	Hydrochlorothiazide impurity C is a potential impurity found in commercial hydrochlorothiazide preparations. [1] Hydrochlorothiazide is a thiazide diuretic that inhibits the apical membrane sodium chloride cotransporter in the distal and collecting duct nephron segments.[2][3][4]
Targets(IC50)	Others,TGF-beta/Smad

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6461 mL	8.2306 mL	16.4612 mL
5 mM	0.3292 mL	1.6461 mL	3.2922 mL
10 mM	0.1646 mL	0.8231 mL	1.6461 mL
50 mM	0.0329 mL	0.1646 mL	0.3292 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

Fang, X., Bibart, R.T., Mayr, S., et al. Purification and identification of an impurity in bulk hydrochlorothiazide. *J. Pharm. Sci.* 90(11), 1800-1809 (2001).

Odlind, B., and Lönnerholm, G. Renal tubular secretion and effects of chlorothiazide, hydrochlorothiazide and clopamide: A study in the avian kidney. *Acta.Pharmacol.Toxicol (Copenh)* 51(3), 187-197 (1982).

Majid, D.S.A., and Navar, L.G. Blockade of distal nephron sodium transport attenuates pressure natriuresis in dogs. *Hypertension* 23(6 Pt 2), 1040-1045 (1994).

Vongpatanasin, W. Hydrochlorothiazide (HCTZ) is not the most useful nor versatile thiazide diuretic. *Curr. Opin. Cardiol.* 30(4), 361-365 (2015).

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