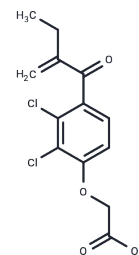


Ethacrynic acid

Chemical Properties

CAS No. :	58-54-8
Formula:	C ₁₃ H ₁₂ Cl ₂ O ₄
Molecular Weight:	303.14
Appearance:	no data available
Storage:	keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Ethacrynic acid (Edecrin) is a nonsulfonamide loop diuretic that inhibits the activity of the Na ⁺ /K ⁺ /2Cl ⁻ cotransporter NKCC2 in the thick ascending limb of the loop of Henle. It also inhibits glutathione S-transferase and Wnt signalling, producing cytotoxicity in chronic lymphocytic leukaemia cells and other tumour cells.
Targets(IC50)	Calcium Channel,NF-κB,GST

Solubility Information

Solubility	Ethanol: 30 mg/mL (98.96 mM),Sonication is recommended. DMSO: 50 mg/mL (164.94 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2988 mL	16.494 mL	32.9881 mL
5 mM	0.6598 mL	3.2988 mL	6.5976 mL
10 mM	0.3299 mL	1.6494 mL	3.2988 mL
50 mM	0.066 mL	0.3299 mL	0.6598 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.

Reference

- Kunugi Y, et al. Ethacrynic acid-sensitive and ATP-dependent Cl⁻ transport in the rat kidney[J]. Japanese Journal of Pharmacology, 1991, 57(2):167-74.
- Tang Y, Song H, Wang Z, et al. Repurposing antiparasitic antimonials to noncovalently rescue temperature-sensitive p53 mutations. Cell Reports. 2022, 39(2): 110622
- Lu D, et al. Ethacrynic Acid Exhibits Selective Toxicity to Chronic Lymphocytic Leukemia Cells by Inhibition of the Wnt/ β -Catenin Pathway[J]. Plos One, 2009, 4(12):e8294.
- Tang Y, Song H, Wang Z, et al. Repurposing antiparasitic antimonials to noncovalently rescue temperature-sensitive p53 mutations. Cell Reports. 2022, 39(2): 110622.

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