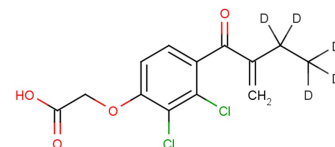


## Ethacrynic acid D5

## Chemical Properties

CAS No.:	1330052-59-9
Formula:	C <sub>13</sub> H <sub>7</sub> D <sub>5</sub> Cl <sub>2</sub> O <sub>4</sub>
Molecular Weight:	308.17
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Ethacrynic acid also inhibits L-type voltage-dependent and store-operated calcium channel, leading to relaxation of airway smooth muscle (ASM) cells. Ethacrynic acid has anti-inflammatory properties that reduces the retinoid-induced ear edema in mice. Ethacrynic acid is a diuretic. Ethacrynic acid is an inhibitor of glutathione S-transferases (GSTs). Ethacrynic acid is a potent inhibitor of NF-κB-signaling pathway, and also modulates leukotriene formation. Ethacrynic acid D5 is a deuterium labeled Ethacrynic acid.
Targets(IC <sub>50</sub> )	Glutathione S-transferases (GSTs): None

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.245 mL	16.225 mL	32.45 mL
5 mM	0.649 mL	3.245 mL	6.49 mL
10 mM	0.324 mL	1.622 mL	3.245 mL
50 mM	0.065 mL	0.324 mL	0.649 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

- Li XQ, et al. Metabolism of Strained Rings: Glutathione S-transferase-Catalyzed Formation of a Glutathione-Conjugated Spiro-azetidine without Prior Bioactivation. *Drug Metab Dispos.* 2019 Nov;47(11):1247-1256.
- Harada T, et al. Ethacrynic acid decreases expression of proinflammatory intestinal wall cytokines and ameliorates gastrointestinal stasis in murine postoperative ileus. *Clinics (Sao Paulo).* 2018 Oct 18;73:e332.
- Zhao XX, et al. Ethacrynic acid inhibits airway smooth muscle contraction in mice. *Sheng Li Xue Bao.* 2019 Dec 25;71(6):863-873.
- Byun HJ, et al. Ethacrynic Acid Inhibits Sphingosylphosphorylcholine-Induced Keratin 8 Phosphorylation and Reorganization via Transglutaminase-2 Inhibition. *Biomol Ther (Seoul).* 2013 Sep 30;21(5):338-42.

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