Ethacrynic acid D5

Cat. No.: CAS No.: Molecular Formula: Molecular Weight:	HY-108538 1330052-59-9 C ₁₃ H ₇ D ₅ Cl ₂ O ₄ 308.17	D II I O OH
Target:	Gutathione S-transferase; NF-κB; Calcium Channel	
Pathway:	Metabolic Enzyme/Protease; NF-κB; Membrane Transporter/Ion Channel; Neuronal Signaling	O CI
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

DIOLOGICAL ACTIV	
Description	Ethacrynic acid D5 is a deuterium labeled Ethacrynic acid. Ethacrynic acid is a diuretic. Ethacrynic acid is an inhibitor of glutathione S-transferases (GSTs). Ethacrynic acid is a potent inhibitor of NF-kB-signaling pathway, and also modulates leukotriene formation. 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 ^{[1][2][3][4]} .
IC ₅₀ & Target	Glutathione S-transferases (GSTs) ^[1] ; NF-κB-signaling pathway ^[2] ; L-type voltage-dependent and store-operated calcium channel ^[3]

REFERENCES

[1]. 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.

[2]. 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.

[3]. Zhao XX, et al. Ethacrynic acid inhibits airway smooth muscle contraction in mice. Sheng Li Xue Bao. 2019 Dec 25;71(6):863-873.

[4]. 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.

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

Tel: 609-228-6898

98 Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

www.MedChemExpress.com

RedChemExpress