

TROX-1

Chemical Properties

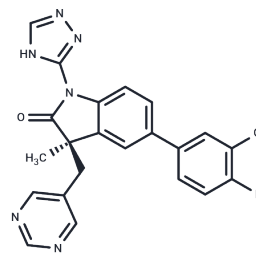
CAS No. : 1309601-26-0

Formula: C₂₂H₁₆ClFN₆O

Molecular Weight: 434.85

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	TROX-1 is the activation state-dependent Cav2 channel antagonist.
Targets(IC50)	Others, Calcium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2996 mL	11.4982 mL	22.9964 mL
5 mM	0.4599 mL	2.2996 mL	4.5993 mL
10 mM	0.230 mL	1.1498 mL	2.2996 mL
50 mM	0.046 mL	0.230 mL	0.4599 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

- Rahman W, Patel R, Dickenson AH. Electrophysiological evidence for voltage-gated calcium channel 2 (Cav2) modulation of mechano- and thermosensitive spinal neuronal responses in a rat model of osteoarthritis. *Neuroscience*. 2015 Oct 1;305:76-85. doi: 10.1016/j.neuroscience.2015.07.073. Epub 2015 Aug 4. PubMed PMID: 26247695; PubMed Central PMCID: PMC4564012.
- Patel R, Rutten K, Valdor M, Schiene K, Wigge S, Schunk S, Damann N, Christoph T, Dickenson AH. Electrophysiological characterization of activation state-dependent Ca(v)2 channel antagonist TROX-1 in spinal nerve injured rats. *Neuroscience*. 2015 Jun 25;297:47-57. doi: 10.1016/j.neuroscience.2015.03.057. Epub 2015 Apr 1. PubMed PMID: 25839150; PubMed Central PMCID: PMC4436437.
- Swensen AM, Herrington J, Bugianesi RM, Dai G, Haedo RJ, Ratliff KS, Smith MM, Warren VA, Arneric SP, Eduljee C, Parker D, Snutch TP, Hoyt SB, London C, Duffy JL, Kaczorowski GJ, McManus OB. Characterization of the substituted N-triazole oxindole TROX-1, a small-molecule, state-dependent inhibitor of Ca(v)2 calcium channels. *Mol Pharmacol*. 2012 Mar;81(3):488-97. doi: 10.1124/mol.111.075226. Epub 2011 Dec 21. PubMed PMID: 22188924.
- Abbadie C, McManus OB, Sun SY, Bugianesi RM, Dai G, Haedo RJ, Herrington JB, Kaczorowski GJ, Smith MM, Swensen AM, Warren VA, Williams B, Arneric SP, Eduljee C, Snutch TP, Tringham EW, Jochnowitz N, Liang A, Euan MacIntyre D, McGowan E, Mistry S, White VV, Hoyt SB, London C, Lyons KA, Bunting PB, Volksdorf S, Duffy JL. Analgesic effects of a substituted N-triazole oxindole (TROX-1), a state-dependent, voltage-gated calcium channel 2 blocker. *J Pharmacol Exp Ther*. 2010 Aug;334(2):545-55. doi: 10.1124/jpet.110.166363. Epub 2010 May 3. PubMed PMID: 20439438.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481