

Product Data Sheet

Product Name: (S)-TROX-1

Cat. No.: GC80842

Chemical Properties

Cas. No. 2751591-42-9

Formula $C_{22}H_{16}ClFN_6O$

M.Wt 434.85

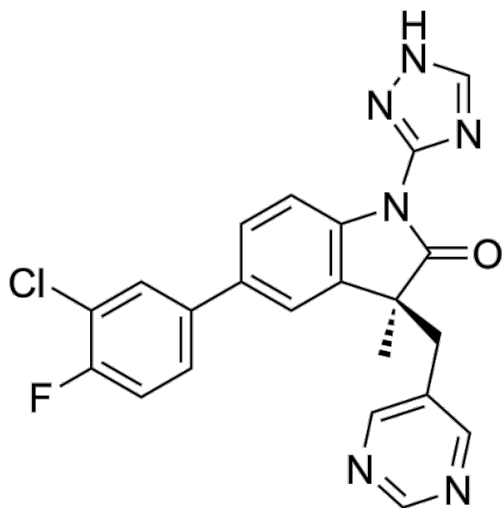
Solubility

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

(S)-TROX-1 is the S-enantiomer of TROX-1. TROX-1 is a selective, orally active and brain-penetrant N-type calcium channel (Cav2.2) inhibitor with an IC_{50} value of 0.11 μM . TROX-1 exerts state-dependent and use-dependent inhibition, preferentially targets open/inactivated channels, blocks depolarization-associated calcium influx, and fully blocks calcium influx in rat dorsal root ganglion neurons. TROX-1 reverses inflammatory-induced hyperalgesia, nerve injury-induced allodynia. TROX-1 can be used for the research of pain [1] [2].

References:

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

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- [1]. Swensen AM, et al. 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.
- [2]. Abbadie C, et al. Analgesic effects of a substituted N-triazole oxindole (TROX-1), a state-dependent, voltage-gated calcium channel 2 blocker. J Pharmacol Exp Ther. 2010;334(2):545-555.

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