

ADX71743

Chemical Properties

CAS No. : 1431641-29-0

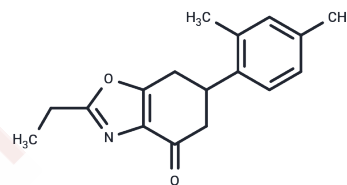
Formula: C₁₇H₁₉NO₂

Molecular Weight: 269.34

Store at low temperature

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	ADX71743 is a selective, non-competitive mGlu7 negative allosteric modulator (NAM) that crosses the blood-brain barrier and exhibits anti-anxiety activity.
Targets(IC50)	GluR
In vitro	ADX71743 (0.1/10 μM) reverses L-AP4-induced synaptic transmission inhibition in a concentration-dependent manner. At 0.1 μM, ADX71743 reduced L-AP4 effects by 11%, while 10 μM reduced inhibition by 20%[2].
In vivo	ADX71743 (50/100/150 mg/kg; subcutaneous injection) dose-dependently reduced marble burying and increased open-arm exploration[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7128 mL	18.5639 mL	37.1278 mL
5 mM	0.7426 mL	3.7128 mL	7.4256 mL
10 mM	0.3713 mL	1.8564 mL	3.7128 mL
50 mM	0.0743 mL	0.3713 mL	0.7426 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

- Klar R, Walker AG, Ghose D, et al. Activation of Metabotropic Glutamate Receptor 7 Is Required for Induction of Long-Term Potentiation at SC-CA1 Synapses in the Hippocampus. *J Neurosci.* 2015;35(19):7600-7615.
- Kalinichev M, et al. ADX71743, a potent and selective negative allosteric modulator of metabotropic glutamate receptor 7: in vitro and in vivo characterization. *J Pharmacol Exp Ther.* 2013;344(3):624-636.

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