
Product Data Sheet

Product Name: ADX 10059 hydrochloride

Cat. No.: GC12460

Chemical Properties

Cas. No. 757949-98-7

Chemical Name 2-((3-fluorophenyl)ethynyl)-4,6-dimethylpyridin-3-amine hydrochloride

SMILES CC1=CC(C)=NC(C#CC2=CC(F)=CC=C2)=C1N.Cl

Formula $C_{15}H_{13}FN_2 \cdot HCl$ M.Wt 276.74

Solubility <6.92mg/ml in Water; <27.67mg/ml in DMSO Storage Desiccate at RT

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

ADX 10059 hydrochloride is a potent and selective negative allosteric modulator of mGlu5 receptor with IC50 value of 17.1 nM [1].

Metabotropic glutamate receptor 5 (mGlu5 receptor) is a G protein-coupled receptor and is a receptor for glutamate, which is a primary neurotransmitter involved in signaling in the central nervous system [2].

ADX 10059 hydrochloride is a potent and selective mGlu5 receptor negative allosteric modulator. In patients with migraine, ADX10059 caused pain-free response in 16.1% patients compared with placebo of 4.5% [1]. In patients with gastro-oesophageal reflux disease (GORD) underwent 24-h oesophageal pH-metry, ADX10059 (250 mg) significantly reduced the percentage of acid exposure time with pH < 4 from 7.2% to 3.6%. Also, ADX 10059 significantly decreased the duration and number of symptomatic reflux episodes and reduced oesophageal acid exposure [2].

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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References:

- [1]. Marin JC, Goadsby PJ. Glutamatergic fine tuning with ADX-10059: a novel therapeutic approach for migraine Expert Opin Investig Drugs, 2010, 19(4): 555-561.
- [2]. Keywood C, Wakefield M, Tack J. A proof-of-concept study evaluating the effect of ADX10059, a metabotropic glutamate receptor-5 negative allosteric modulator, on acid exposure and symptoms in gastro-oesophageal reflux disease. Gut, 2009, 58(9): 1192-1199.

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