

Xanthine amine congener dihydrochloride Biochemical

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CATALOG #
AAA228020

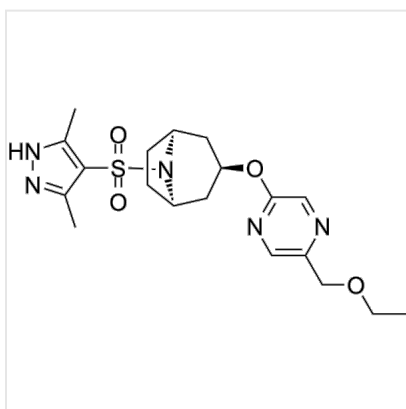
PRODUCT SYNONYMS

Xanthine amine congener dihydrochloride; Xanthine amine congener dihydrochloride biochemical

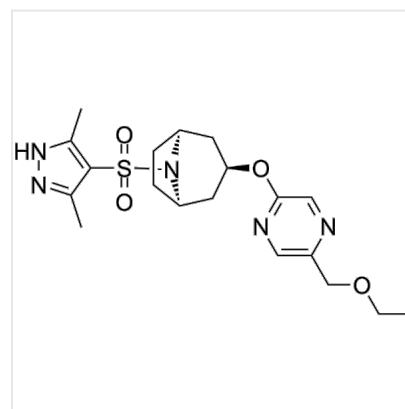
PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	1962928-23-9
Targets&IC50	adenosine A1 receptor:1.8 nM (IC50), Adenosine A2 receptor:114 nM (IC50)
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	Xanthine amine congener dihydrochloride is more potent as a convulsant than either caffeine or theophyllin in infusion studies at the dosage 39.8mg/kg. XAC has no effects by administering the drug via an i.p. injection, the seizure threshold 1000 mg/kg[1]. Animal Model: Mice[1]. Dosage: 39.8mg/kg. Administration: Infusion injection; single dose. Result: Acted as a convulsant agent than either caffeine or theophyllin.
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
ARN19689, CAS 2320521-34-2



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ADDITIONAL INFORMATION

Related Product Information for Xanthine amine congener dihydrochloride biochemical	Xanthine amine congener dihydrochloride (XAC dihydrochloride) is a potent Adenosine A1 receptor and A2 receptor antagonist with IC 50 values of 1.8 and 114 nM, respectively. Xanthine amine congener acts as a convulsant agent in mice model.
References	1. Di Fruscia P, et al. Discovery and SAR Evolution of Pyrazole Azabicyclo[3.2.1]octane Sulfonamides as a Novel Class of Non-Covalent N-Acylethanolamine-Hydrolyzing Acid Amidase (NAAA) Inhibitors for Oral Administration. J Med Chem. 2021 Sep 23;64(18):13327-13355.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/xanthine-amine-congener-dihydrochloride/228020>