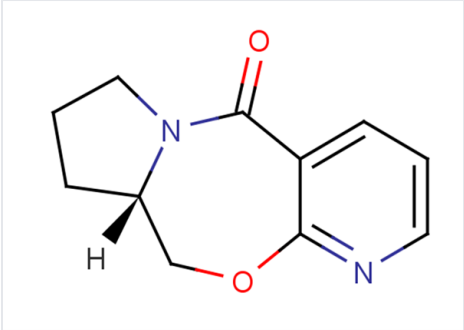
ORG-26576 Inhibitor

PRODUCT OVERVIEW

Product Name	Org-26576, Inhibitor
Full Product Name	Org-26576
Product Gene Name	Org-26576, inhibitor
Form/Format	Solid. Powder
Purity/Purification	98.00%
Preparation and Storage	Store at -20 degree C for 3 years powder -80 degree C for 2 years in solvent
Molecular Weight	204.23
Solubility	DMSO: 25mg/mL (122.41mM) Need ultrasonic (<1mg/ml refers to the product slightly soluble or insoluble)
Formula	C11H12N2O2
SMILES	O=C1N2[C@](CCC2)([H])COC3=NC=CC=C13
CAS Number	1026791-61-6
Target & IC50	Others
In Vitro	Org-26576 (Chronic administration) increases progenitor cell proliferation in the dentate gyrus (approximately 40%) and in the prelimbic cortex (approximately 35%) at the 10-mg/kg dosage. Cells born in response to chronic Org-26576 in dentate gyrus show increased rates of survival (approximately 30%) with the majority of surviving cells expressing a neuronal phenotype. Org-26576 (1mg/kg) produces obviously enhances the anteroventral and laterodorsal thalamus, cingulate cortex, dentate gyrus, and CA3 subfield of the hippocampus in mice. AMPA receptor potentiation by Org-26576 exerts a positive modulatory influence on brain-derived neurotrophic factor (BDNF) expression during ongoing neuronal activity. Total BDNF mRNA levels are significantly increased in the hippocampus of animals exposed to the combination of Org-26576 and stress[1][2][3].
Related Product Information for Org-26576, inhibitor	MBS5755311 is an inhibitor targeting Org-26576. Org-26576 is a positive allosteric modulator of the AMPA receptor.
Product References and Citations for Org-26576, inhibitor	Jordan GR, et al. Regionally selective and dose-dependent effects of the ampakines Org 26576 and Org 24448 on local cerebral glucose utilisation in the mouse as assessed by 14C-2-deoxyglucose autoradiography. Neuropharmacology. 2005 Aug;49(2):254-64. Jordan GR, et al. Regionally selective and dose-dependent effects of the ampakines Org 26576 and Org 24448 on local cerebral glucose utilisation in the mouse as assessed by 14C-2-deoxyglucose autoradiography. Neuropharmacology. 2005 Aug;49(2):254-64. Su XW, et al. Chronic treatment,with AMPA receptor potentiator Org 26576 increases neuronal cell proliferation and survival in adult rodent hippocampus. Psychopharmacology (Berl). 2009 Oct;206(2):215-22. Su XW, et al. Chronic treatment,with AMPA receptor potentiator Org 26576 increases neuronal cell proliferation and survival in adult rodent hippocampus. Psychopharmacology (Berl). 2009 Oct;206(2):215-22. Fumagalli F, et al. The AMPA receptor potentiator Org 26576 modulates stress-induced transcription of BDNF isoforms in rat hippocampus. Pharmacol Res. 2012 Feb;65(2):176-81. Fumagalli F, et al. The AMPA receptor potentiator Org 26576 modulates stress-induced transcription of BDNF isoforms in rat hippocampus. Pharmacol Res. 2012 Feb;65(2):176-81.
Other Notes	Small volumes of Org-26576, inhibitor vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Structure of Org-26576, inhibitor

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

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Online datasheet: https://www.mybiosource.com/inhibitor/org-26576/5755311