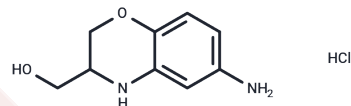


ABO hydrochloride

Chemical Properties

CAS No. :	2309172-24-3
Formula:	C ₉ H ₁₂ N ₂ O ₂ ·2HCl
Molecular Weight:	253.13
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	ABO acts as an annexin A7 modulator, specifically binding to Thr286 to inhibit its phosphorylation on threonine (not on serine or tyrosine) residues within human umbilical vein endothelial cells (HUVECs). This compound furthers the annexin A7 interaction with the EF-hand protein GCA, leading to reduced GCA phosphorylation, lowered intracellular calcium levels, and enhanced autophagy in COS-7 cells. Moreover, ABO lessens phosphorylation of the microtubule-associated protein 1 light chain (LC3) in HUVECs and impedes the upregulation of phosphatidylcholine-specific phospholipase C (PC-PLC) due to oxidized low-density lipoprotein in vascular endothelial cells (VECs). In animal models, specifically apoE ^{-/-} mice on a Western diet, administration of ABO (50 or 100 mg/kg per day) has been shown to decrease PC-PLC expression, promote autophagy, and reduce apoptosis, lipid accumulation, and the extent of atherosclerotic plaques in the aortic endothelium.
Targets(IC50)	Others,Annexin A

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9505 mL	19.7527 mL	39.5054 mL
5 mM	0.7901 mL	3.9505 mL	7.9011 mL
10 mM	0.3951 mL	1.9753 mL	3.9505 mL
50 mM	0.079 mL	0.3951 mL	0.7901 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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