

YM-543 choline

Chemical Properties

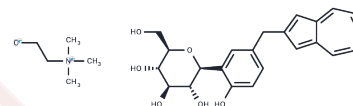
CAS No. : 1610007-47-0

Formula: C₂₈H₃₇N₀O₇

Molecular Weight: 499.6

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	YM-543, also known as ASP-543, is a selective SGLT2 inhibitor. Sodium-glucose cotransporter 2 (SGLT2) is a specifically expressed transporter in the kidney that plays an important role in renal glucose reabsorption, and its inhibition may present a novel therapeutic strategy for treating diabetes. YM543 potently and selectively inhibited mouse and human SGLT2 activities at nanomolar ranges. In vivo single oral administration of YM543 dose-dependently and significantly reduced blood glucose levels and improved glucose tolerance with a concomitant increase in urinary glucose excretion in KK/Ay type 2 diabetic mice, effects that were sustained even after 12 h.
Targets(IC50)	Others,SGLT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0016 mL	10.008 mL	20.016 mL
5 mM	0.4003 mL	2.0016 mL	4.0032 mL
10 mM	0.2002 mL	1.0008 mL	2.0016 mL
50 mM	0.040 mL	0.2002 mL	0.4003 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

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