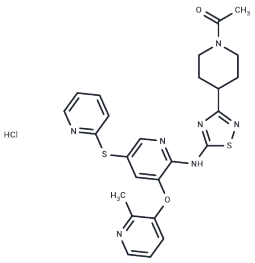
Data Sheet (Cat.No.T10362L)

TargetMol

AR453588 hydrochloride

Chemical Properties



CAS No. : 1065606-97-4

Formula: C25H26ClN7O2S2

Molecular Weight: 556.1

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	AR453588 hydrochloride is an orally bioavailable anti-diabetic glucokinase activator (EC50: 42 nM) with anti-hyperglycemic activity.
Targets(IC50)	Others,Glucokinase
In vivo	AR453588 hydrochloride (3-30 mg/kg; p.o) reduces post-prandial glucose in normal C57BL/6J mice and exhibits anti-hyperglycemic activity in ob/ob mice over a 14-day, once-daily dosing regimen. For AR453588 (10 mg/kg; p.o.), Tmax, AUCinf, Vss, Cmax, and F are 1.0 mL/min/kg, 4.65 h μg/mL, 1.67 μg/mL, and 60.3%, respectively. For AR453588 (1 mg/kg; i.v.), CL, AUCinf, Vss, and t1/2 are 21.6 mL/min/kg, 0.77 h μg/mL, 0.746 L/kg, and 1.28 hours, respectively.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7982 mL	8.9912 mL	17.9824 mL
5 mM	0.3596 mL	1.7982 mL	3.5965 mL
10 mM	0.1798 mL	0.8991 mL	1.7982 mL
50 mM	0.036 mL	0.1798 mL	0.3596 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.

Reference

Hinklin RJ, et al. Discovery and preclinical development of AR453588 as an anti-diabetic glucokinase activator. Bioorg Med Chem. 2020 Jan 1;28(1):115232.

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