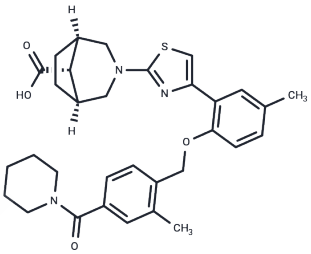
Data Sheet (Cat.No.T10536)

TargetMol

BI 703704

Chemical Properties



CAS No. : 2740807-77-4

Formula: C32H37N3O4S

Molecular Weight: 559.72

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	BI 703704, a soluble guanylate cyclase (sGC) activator, inhibits the progression of diabetic nephropathy in the ZSF1 rat [1].
Targets(IC50)	Others,Guanylate cyclase
In vivo	BI 703704 administered at dosages of 0.3 to 10 mg/kg through food intake daily for 15 weeks in fifty-eight male ZSF1 rats aged 12-13 weeks led to a dose-dependent reduction in urinary protein excretion (UPE) and a dose-dependent elevation in renal cGMP levels [1]. The compound effectively increases renal cGMP in a dose-responsive manner, thereby decelerating the progression of diabetic nephropathy under conditions of oxidative stress [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7866 mL	8.933 mL	17.8661 mL
5 mM	0.3573 mL	1.7866 mL	3.5732 mL
10 mM	0.1787 mL	0.8933 mL	1.7866 mL
50 mM	0.0357 mL	0.1787 mL	0.3573 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

Boustany-Kari CM, et al. A Soluble Guanylate Cyclase Activator Inhibits the Progression of Diabetic Nephropathy in the ZSF1 Rat. J Pharmacol Exp Ther. 2016 Mar;356(3):712-9.

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