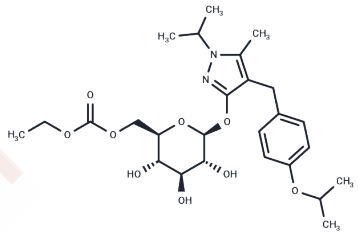
Data Sheet (Cat.No.T34286)

TargetMol

Remogliflozin etabonate

Chemical Properties



CAS No. : 442201-24-3

Formula: C26H38N2O9

Molecular Weight: 522.59

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	Remogliflozin etabonate (GSK189075A) is a prodrug of regaliflozin and an inhibitor SGLT2 with Ki values of 1.95, 2.14, 8.57, and 43.1μM for hSGLT2, rSGLT2, rSGLT1, and hSGLT1, respectively.
Targets(IC50)	SGLT
In vivo	Oral administration of Remogliflozin etabonate (10-30 mg/kg) dose-dependently reduces the levels of FPG and GHb. Oral administration of Remogliflozin etabonate (3-30 mg/kg) dose-dependently increases urine volume and urinary glucose excretion[2].

Solubility Information

Solubility	DMSO: 90 mg/mL (172.22 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (6.31 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9135 mL	9.5677 mL	19.1355 mL
5 mM	0.3827 mL	1.9135 mL	3.8271 mL
10 mM	0.1914 mL	0.9568 mL	1.9135 mL
50 mM	0.0383 mL	0.1914 mL	0.3827 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

Nakano S, et al. Remogliflozin Etabonate Improves Fatty Liver Disease in Diet-Induced Obese Male Mice. J Clin Exp Hepatol. 2015 Sep;5(3):190-8.
Yoshikazu Fujimori, et al. Remogliflozin Etabonate, in a Novel Category of Selective Low-Affinity Sodium Glucose Cotransporter (SGLT2) Inhibitors, Exhibits Antidiabetic Efficacy in Rodent Models. J Pharmacol Exp Ther. 2008 Oct; 327(1):268-76.
Mikhail N. Remogliflozin etabonate: a novel SGLT2 inhibitor for treatment of diabetes mellitus. Expert Opin Investig Drugs. 2015;24(10):1381-7.
Mikhail N. Remogliflozin etabonate : a novel SGLT2 inhibitor for treatment of diabetes mellitus. Expert Opin Investig Drugs. 2015 Aug 14:1-7.
O'Connor-Semmes R, et al. Pharmacokinetics and Pharmacodynamics of the SGLT2 Inhibitor Remogliflozin Etabonate in Subjects with Mild and Moderate Renal Impairment. Drug Metab Dispos. 2015 Jul;43(7):1077-83.

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