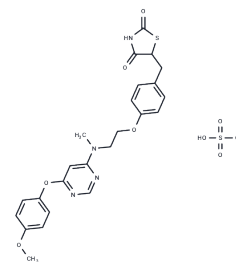


Lobeglitazone Sulfate

Chemical Properties

CAS No. :	763108-62-9
Formula:	C ₂₄ H ₂₆ N ₄ O ₉ S ₂
Molecular Weight:	578.61
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	Lobeglitazone Sulfate(CKD-501 Sulfate) is a novel thiazolidinedione with anti-inflammatory activity that inhibits LPS-induced NLRP3 inflammasome activation and hepatic inflammation, and can be used in the study of type 2 diabetes mellitus (T2DM).
Targets(IC50)	ERK,Others,NF-κB,NO Synthase,NOD,COX,Interleukin,JNK,PPAR,TGF-beta/Smad

Solubility Information

Solubility	DMSO: 50 mg/mL (86.41 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7283 mL	8.6414 mL	17.2828 mL
5 mM	0.3457 mL	1.7283 mL	3.4566 mL
10 mM	0.1728 mL	0.8641 mL	1.7283 mL
50 mM	0.0346 mL	0.1728 mL	0.3457 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

Moon SJ, et al. An Assessment of Pharmacokinetic Interaction Between Lobeglitazone and Sitagliptin After Multiple Oral Administrations in Healthy Men. *Clin Ther.* 2020 Jun;42(6):1047-1057.

Kim SY, et al. Pharmacokinetics of a Lobeglitazone/Metformin Fixed-Dose Combination Tablet (CKD-395 0.5/1000 mg) Versus Concomitant Administration of Single Agents and the Effect of Food on the Metabolism of CKD-395 in Healthy Male Subjects. *Clin Pharmacol Drug Dev.* 2019 Jul;8(5):576-584.

Kim YK, et al. No Relevant Pharmacokinetic Drug-Drug Interaction Between the Sodium-Glucose Co-Transporter-2 Inhibitor Empagliflozin and Lobeglitazone, a Peroxisome Proliferator-Activated Receptor- γ Agonist, in Healthy Subjects. *Drug Des Devel Ther.* 2021 Apr 28;15:1725-1734.

Lee SJ, et al. Pharmacokinetics and bioequivalence of 0.5 mg lobeglitazone tablets in healthy male subjects. *Int J Clin Pharmacol Ther.* 2018 Sep;56(9):426-433.

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