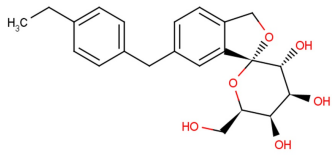
Data Sheet (Cat.No.T13179)

TargetMol
A DRUG SCREENING EXPERT

Tofogliflozin

Chemical Properties



CAS No.:	903565-83-3
Formula:	C22H26O6
Molecular Weight:	386.44
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Tofogliflozin is a highly specific inhibitor of sodium/glucose cotransporter 2 (SGLT2) (Kis: 2.9, 14.9, and 6.4 nM for human, rat, and mouse SGLT2. IC50s: 2.9/14.9/6.4 nM (human/rat/mouse SGLT2)).
Targets(IC_{50})	Others: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.588 mL	12.939 mL	25.877 mL
5 mM	0.518 mL	2.588 mL	5.175 mL
10 mM	0.259 mL	1.294 mL	2.588 mL
50 mM	0.052 mL	0.259 mL	0.518 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Nagata T, et al. Tofogliflozin, a novel sodium-glucose co-transporter 2 inhibitor, improves renal and pancreatic function in db/db mice. Br J Pharmacol. 2013 Oct;170(3):519-31.
2. Yamane M, et al. In vitro profiling of the metabolism and drug-drug interaction of tofogliflozin, a potent and highly specific sodium-glucose co-transporter 2 inhibitor, using human liver microsomes, human hepatocytes, and recombinant human CYP. Xenobioti
3. Suzuki M, et al. Tofogliflozin, a potent and highly specific sodium/glucose cotransporter 2 inhibitor, improves glycemic control in diabetic rats and mice. J Pharmacol Exp Ther. 2012 Jun;341(3):692-701.
4. Nagata T, et al. Selective SGLT2 inhibition by tofogliflozin reduces renal glucose reabsorption under hyperglycemic but not under hypo- or euglycemic conditions in rats. Am J Physiol Endocrinol Metab. 2013 Feb 15;304(4):E414-23.

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