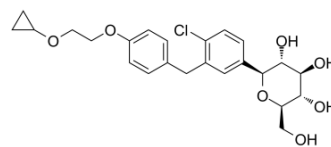


Bexagliflozin

Cat. No.:	HY-17604		
CAS No.:	1118567-05-7		
Molecular Formula:	C ₂₄ H ₂₉ ClO ₇		
Molecular Weight:	464.94		
Target:	SGLT		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (215.08 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.1508 mL	10.7541 mL	21.5082 mL
	5 mM	0.4302 mL	2.1508 mL	4.3016 mL
	10 mM	0.2151 mL	1.0754 mL	2.1508 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 3 mg/mL (6.45 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 3 mg/mL (6.45 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 3 mg/mL (6.45 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bexagliflozin (EGT1442) is a potent and selective sodium glucose co-transporter 2 (SGLT2) inhibitor, with IC₅₀s of 2 nM and 5.6 μM for human SGLT2 and SGLT1, respectively. Bexagliflozin can be used for the research of type 2 diabetic^[1].

IC₅₀ & Target

hSGLT1 5.6 μM (IC ₅₀)	hSGLT2 2 nM (IC ₅₀)
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In Vivo

Bexagliflozin (0.1-10 mg/kg; p.o.) lowers blood glucose levels in a dose-dependent manner after glucose challenge (20%; 2 g/kg;p.o.)^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Sprague-Dawley rats (240-60 g) ^[1]
Dosage:	0.1 mg/kg, 0.3 mg/kg, 1 mg/kg, 3 mg/kg, 10 mg/kg
Administration:	Oral administration
Result:	Significantly lower blood glucose in rats and can blunt the normal physiological response to a high dietary glucose load.

CUSTOMER VALIDATION

- Biochem Pharmacol. 2018 Jun;152:45-59.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Zhang W et al. EGT1442, a potent and selective SGLT2 inhibitor, attenuates blood glucose and HbA(1c) levels in db/db mice and prolongs the survival of stroke-prone rats. Pharmacol Res. 2011 Apr;63(4):284-93.

Caution: Product has not been fully validated for medical applications. For research use only.

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