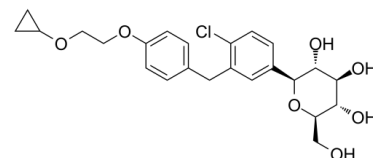


Data Sheet

Product Name:	Bexagliflozin
Cat. No.:	CS-5702
CAS No.:	1118567-05-7
Molecular Formula:	C ₂₄ H ₂₉ ClO ₇
Molecular Weight:	464.94
Target:	SGLT
Pathway:	Membrane Transporter/Ion Channel
Solubility:	DMSO : ≥ 100 mg/mL (215.08 mM)



BIOLOGICAL ACTIVITY:

Bexagliflozin is a potent and selective SGLT2 inhibitor with IC₅₀ value of 5.6 μM /2 nM in SGLT1 /SGLT2 respectively. target: SGLT2
IC₅₀: 5.6 μM (SGLT1)/ 2 nM (SGLT2) 1) In normal rats and dogs a saturable urinary glucose excretion was produced with an ED₅₀ of 0.38 and 0.09 mg/kg, respectively. 2) EGT1442 significantly prolonged the median survival of SHRSP rats. 3) EGT1442 dose-dependently reduced HbA_{1c} and blood glucose concentration without affecting body mass or insulin level.

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.

CAIndexNames:

D-Glucitol, 1,5-anhydro-1-C-[4-chloro-3-[[4-[2-(cyclopropyloxy)ethoxy]phenyl]methyl]phenyl]-, (1S)-

SMILES:

O[C@H]([C@H]1O)[C@@H](O[C@H](CO)[C@H]1O)C2=CC(CC3=CC=C(OCCOC4CC4)C=C3)=C(Cl)C=C2

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

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