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DATASHEET

Empagliflozin

Product overview

Name	Empagliflozin
Cat No	HB4638
Biological action	Inhibitor
Purity	>98%
Description	Potent, selective sodium glucose co-transporter 2 (SGLT-2) inhibitor

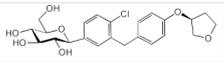
Biological Data

Biological description	Antidiabetic agent. Potent and selective sodium glucose co-transporter 2 (SGLT-2) inhibitor. >300-fold selectivity over SGLT-1, 4, 5 and 6. SGLT-2 is found almost exclusively in the proximal tubules of nephronic components in kidneys. Inhibition of SGLT-2 reduces blood glucose by blocking renal glucose reabsorption and thereby increasing urinary glucose excretion (UGE). Shown to preserves beta cell mass and restore glucose homeostasis.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in DMSO
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(2S,3R,4R,5S,6R)-2-[4-chloro-3-[[4-[(3S)-oxolan-3-yl]oxyphenyl]methyl]phenyl]-6-(hydroxymethyl)oxane-3,4,5-triol
Molecular Weight	450.9
Chemical structure	
Molecular Formula	C ₂₃ H ₂₇ ClO ₇
CAS Number	864070-44-0
PubChem identifier	11949646
SMILES	C1COC[C@H]1OC2=CC=C(C=C2)CC3=C(C=CC(=C3)[C@H]4[C@@H]([C@H]([C@@H]([C@H](O4)CO)O)O)O)Cl
InChi	InChI=1S/C23H27ClO7/c24-18-6-3-14(23-22(28)21(27)20(26)19(11-25)31-23)10-15(18)9-13-1-4-16(5-2-13)30-17-7-8-29-12-17/h1-6,10,17,19-23,25-28H,7-9,11-12H2/t17-,19+,20+,21-,22+,23-/m0/s1
InChiKey	OBWASQILIWPZMG-QZMOQZSNSA-N
Appearance	White solid