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# **DATASHEET**

Empagliflozin

### **Product overview**

Name Empagliflozin
Cat No HB4638
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.

## **Solubility & Handling**

Solubility overview Soluble in DMSO

Storage instructions -20°C

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

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)oxa

ne-3,4,5-triol

Molecular Weight 450.9

Chemical structure

 Molecular Formula
 C23H27CIO7

 CAS Number
 864070-44-0

 PubChem identifier
 11949646

4)CO)O)O)O)CI

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