

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@helloworldbio.com



## DATASHEET

### Empagliflozin

#### Product overview

|                    |  |
|--------------------|--|
| <b>Name</b>        | Empagliflozin  |
| <b>Cat No</b>      | HB4638   |
| <b>Description</b> | Potent, selective sodium glucose co-transporter 2 (SGLT-2) inhibitor |
| <b>Purity</b>      | >98%   |

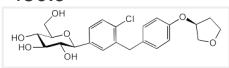
#### Biological Data

|                               |  |
|-------------------------------|--|
| <b>Biological description</b> | 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 preserve beta cell mass and restore glucose homeostasis. |
|-------------------------------|--|

#### Solubility & Handling

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

#### Chemical Data

|                           |   |
|---------------------------|---|
| <b>Chemical name</b>      | (2S,3R,4R,5S,6R)-2-[4-chloro-3-[[4-[(3S)-oxolan-3-yl]oxyphenyl]methyl]phenyl]-6-(hydroxymethyl)oxane-3,4,5-triol  |
| <b>Molecular Weight</b>   | 450.9   |
| <b>Chemical structure</b> |    |
| <b>Molecular Formula</b>  | C <sub>23</sub> H <sub>27</sub> ClO <sub>7</sub>  |
| <b>CAS Number</b>         | 864070-44-0   |
| <b>PubChem identifier</b> | 11949646  |
| <b>SMILES</b>             | 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  |
| <b>InChi</b>              | 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 |
| <b>InChiKey</b>           | OBWASQILWPMZMG-QZMOQZSNSA-N   |
| <b>Appearance</b>         | White solid   |