



Product Information

SGLT inhibitor Dapagliflozin ((2S)-1,2-propanediol hydrate), Purity ≥98%

Cat. No.: X24-07-ZQ528

Size: 5 mg; 10 mg; 50 mg; 100 mg

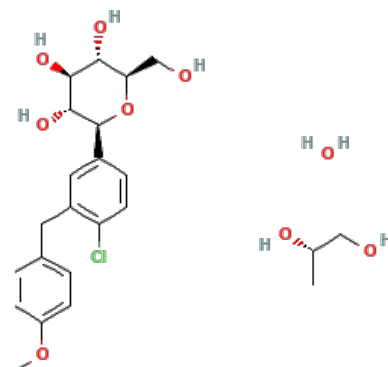
MDL: MFCD28167768

CAS Number: 960404-48-2

Compound CID: 24906252

Synonym: 960404-48-2; SGLT inhibitor; BMS-512148 (2S)-1,2-propanediol hydrate

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Dapagliflozin ((2S)-1,2-propanediol hydrate), soluble in DMSO and ethanol and insoluble in water, is a sodium-glucose cotransporter inhibitor, preventing the kidneys from reabsorbing glucose.
Molecular Weight	502.98
Molecular Formula	C ₂₄ H ₃₅ ClO ₉
IUPAC Name	(2S,3R,4R,5S,6R)-2-[4-chloro-3-[(4-ethoxyphenyl)methyl]phenyl]-6-(hydroxymethyl)oxane-3,4,5-triol;(2S)-propane-1,2-diol;hydrate
InChI	InChI=1S/C21H25ClO6.C3H8O2.H2O/c1-2-27-15-6-3-12(4-7-15)9-14-10-13(5-8-16(14)22)21-20(26)19(25)18(24)17(11-23)28-21;1-3(5)2-4;/h3-8,10,17-21,23-26H,2,9,11H2,1H3;3-5H,2H2,1H3;1H2/t17-,18-,19+,20-,21+;/m10./s1
InChI Key	GOADIQFWSVMMRJ-UPGAGZFNSA-N
Canonical SMILES	CCOC1=CC=C(C=C1)CC2=C(C=CC(=C2)C3C(C(C(C(O3)CO)O)O)O)Cl.CC(CO)O.O
Isomeric SMILES	CCOC1=CC=C(C=C1)CC2=C(C=CC(=C2)[C@H]3[C@@H]([C@H]([C@@H]([C@H](O3)CO)O)O)O)Cl.C[C@@H](CO)O.O
Form	Lyophilized powder
Purity	≥98%
Solubility	DMSO: 92 mg/mL (182.91 mM); Water: Insoluble; Ethanol: 92 mg/mL (182.91 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade



Applications

Dapagliflozin ((2S)-1,2-propanediol hydrate) is an SGLT inhibitor used in research on glucose metabolism and diabetes management.

Storage

Store at -20°C, and keep desiccated.
