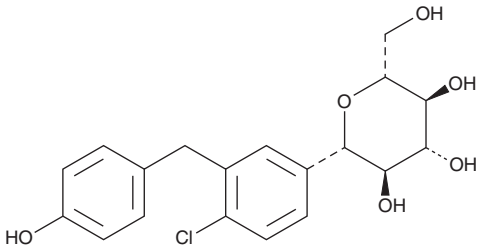
PRODUCT INFORMATION

O-desethyl Dapagliflozin

Item No. 36022

CAS Registry No.:	864070-37-1
Formal Name:	(1S)-1,5-anhydro-1-C-[4-chloro-3-[(4-hydroxyphenyl)methyl]phenyl]-D-glucitol
MF:	$C_{19}H_{21}ClO_6$
FW:	380.8
Purity:	≥98%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

O-desethyl Dapagliflozin is supplied as a crystalline solid. A stock solution may be made by dissolving the O-desethyl dapagliflozin in the solvent of choice, which should be purged with an inert gas. O-desethyl Dapagliflozin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of O-desethyl dapagliflozin in these solvents is approximately 30 mg/ml.

O-desethyl Dapagliflozin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, O-desethyl dapagliflozin should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. O-desethyl Dapagliflozin has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

O-desethyl Dapagliflozin is an inhibitor of sodium-glucose cotransporter 2 (SGLT2; IC_{50} = 9.4 nM) and active metabolite of dapagliflozin (Item No. 11574).[1,2] It is selective for SGLT2 over SGLT1 (IC_{50} = 970 nM).[1]

References

1. Xu, B., Feng, Y., Cheng, H., *et al.* C-aryl glucosides substituted at the 4'-position as potent and selective renal sodium-dependent glucose co-transporter 2 (SGLT2) inhibitors for the treatment of type 2 diabetes. *Bioorg. Med. Chem. Lett.* **21(15)**, 4465-4470 (2011).
2. Xu, G., Lv, B., Roberge, J.Y., *et al.* Design, synthesis, and biological evaluation of deuterated C-aryl glycoside as a potent and long-acting renal sodium-dependent glucose cotransporter 2 inhibitor for the treatment of type 2 diabetes. *J. Med. Chem.* **57(4)**, 1236-1251 (2014).

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