

Product Data Sheet

Product Name: Dapagliflozin keto impurity

Cat. No.: GC79620

Chemical Properties

Cas. No. 2169998-23-4

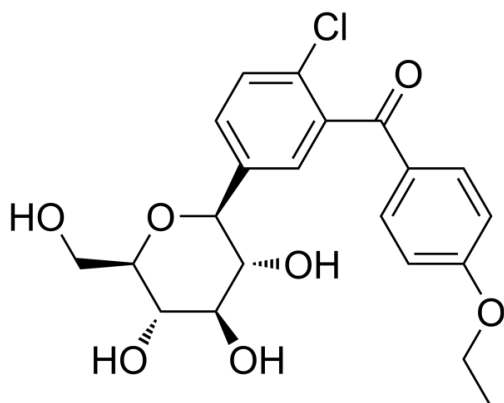
Formula $C_{21}H_{23}ClO_7$ M.Wt 422.86

Solubility DMSO: 100 mg/mL (236.48 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Dapagliflozin keto impurity (Oxo-dapagliflozin) is an oxo metabolite and related impurity of

Caution: Product has not been fully validated for medical applications. For research use only.

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Dapagliflozin. Dapagliflozin keto impurity can be characterized by ¹H NMR, ¹³C NMR and HRMS, and can be used in studies related to Dapagliflozin impurities and metabolites [1].

In Vitro, Dapagliflozin keto impurity (Oxo-dapagliflozin) is an off-white amorphous solid, which is prepared via multi-step chemical synthesis using methoxyoxo-dapagliflozin as the starting material with a yield of 80%. Its structure is confirmed by NMR and HRMS^[1]. Dapagliflozin keto impurity is obtained by hydrolyzing tetraacetyl oxo dapagliflozin with LiOH·H₂O. The reaction proceeds at 20-30°C for 16 h, with a yield of 84%^[1].

References:

[1]. Karumanchi K, et al. Synthesis of metabolites of dapagliflozin: an SGLT2 inhibitor. J Chem Sci. 2020;132:42.

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