
Product Data Sheet

Product Name: Remogliflozin A

Cat. No.: GC18762

Chemical Properties

Cas. No. 329045-45-6

Chemical Name 5-methyl-4-[[4-(1-methylethoxy)phenyl]methyl]-1-(1-methylethyl)-1H-pyrazol-3-yl β -D-glucopyranosideSMILES CC(C)OC1=CC=C(CC2=C(C)N(C(C)C)N=C2O[C@@H]3O[C@H](CO)[C@@H](O)[C@H](O)[C@H]3O)C=C1Formula $C_{23}H_{34}N_2O_7$ M.Wt 450.5

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, Ethanol: PBS (pH 7.2) (1:1): 0.5 mg/ml Store Storage 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**

Remogliflozin A is a potent inhibitor of sodium-glucose transporter 2 (SGLT2; $K_{is} = 12.4$ and 26 nM for human and rat SGLT2, respectively). It is selective for SGLT2 over SGLT1 ($K_{is} = 4,520$ and 997 nM for human and rat SGLT1, respectively). Following administration of a prodrug, remogliflozin etabonate, that is rapidly converted to remogliflozin A in vivo, rat urinary glucose excretion increases and plasma glucose and insulin concentrations decrease. Similar effects are observed following oral administration of remogliflozin etabonate to rats with diabetes induced by streptozotocin and db/db mice with hyperinsulinemia and obesity.

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

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