

Product Data Sheet

Product Name: Sergliflozin A

Cat. No.: GC91981

Chemical Properties

Cas. No. 360775-96-8

Chemical Name 2[(4methoxyphenyl)methyl]phenyl, β -D-glucopyranoside

SMILES O[C@@H]1[C@@H](O)[C@H](O)[C@@H](CO)O[C@H]1OC2=C(CC3=CC=C(OC)C=C3)C=CC=C2

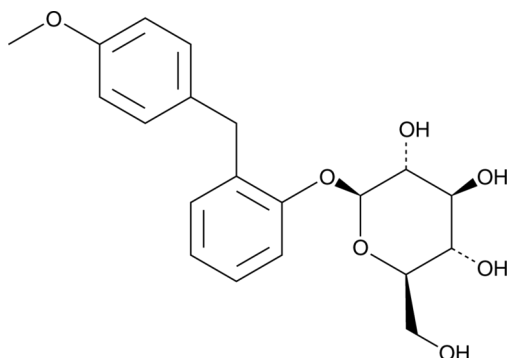
Formula $C_{20}H_{24}O_7$ M.Wt 376.4

Solubility Acetonitrile: Slightly Soluble: 0.1-1 mg/ml, DMSO: Sparingly Soluble: 1-10 mg/ml Storage -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

Sergliflozin A is an inhibitor of sodium-glucose cotransporter 2 (SGLT2; $K_i = 2.39 \text{ nM}$ for the human transporter) and an active metabolite of sergliflozin etabonate.¹ It is formed from sergliflozin etabonate by esterases and selectively inhibits SGLT2 over SGLT1 ($K_i = 708 \text{ nM}$ for the human

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

transporter). Co-infusion of sergliflozin A and glucose reduces maximal renal glucose reabsorption rates in rats.

References:

[1]. Katsuno, K., Fujimori, Y., Takemura, Y., et al. Sergliflozin, a novel selective inhibitor of low-affinity sodium glucose cotransporter (SGLT2), validates the critical role of SGLT2 in renal glucose reabsorption and modulates plasma glucose level. *J. Pharmacol. Exp. Ther.* 320(1):323-330(2007).

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA