

Tofogliflozin hydrate Biochemical

Tofogliflozin hydrate

CATALOG #
AAA201894

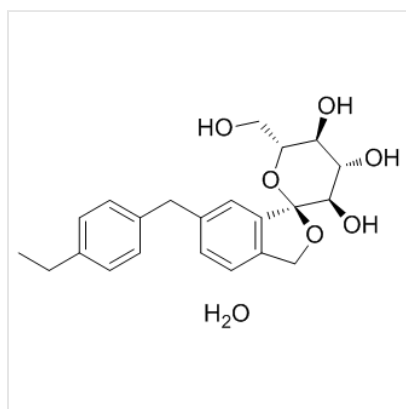
PRODUCT SYNONYMS

Tofogliflozin hydrate; CSG452 hydrate; CSG-452 hydrate; Tofogliflozin hydrate biochemical

PRODUCT SPECIFICATIONS

Purity/Purification	>98% (HPLC)
Suitability	10mM in DMSO
Target	SGLT
Receptor	SGLT
Chemical Name	Spiro[isobenzofuran-1(3H), 2'-[2H]pyran]-3', 4', 5'-triol, 6-[(4-ethylphenyl)methyl]-3', 4', 5', 6'-tetrahydro-6'-(hydroxymethyl)-, hydrate(1:1), (1S, 3'R, 4'S, 5'S, 6'R)
SMILES	<chem>CCC1=CC=C(C=C1)CC2=CC3=C(COC34C(C(C(C(O4)CO)O)O)O)C=C2.O</chem>
Molecular Formula	C22H28O7
CAS Number	1201913-82-7
Preparation and Storage	Store at -20 degree C Stability: ≥2 years

IMAGES



Structure

ADDITIONAL INFORMATION

Related Product Information for Tofogliflozin hydrate biochemical

Tofogliflozin (CSG-452) is a potent, highly selective SGLT2 inhibitor with K_i of 2.9, 14.9, and 6.4nM against human, rat, and mouse SGLT2, respectively; displays high selectivity over human SGLT2 versus human SGLT1, SGLT6, and sodium/myo-inositol transporter 1; increases renal glucose clearance and lowered the blood glucose level in Zucker diabetic fatty rats, also improves postprandial glucose excursion; reduces glycated hemoglobin and improved glucose tolerance in the oral glucose tolerance test in vivo. Diabetes Approved

Product Categories/Family for Tofogliflozin hydrate biochemical	Diabetes; GPCR/G Protein ; Metabolic Disease
References	1. Suzuki M, et al. J Pharmacol Exp Ther. 2012 Jun; 341 (3):692-701. 2. Ohtake Y, et al. J Med Chem. 2012 Sep 13; 55 (17):7828-40. 3. Nagata T, et al. Am J Physiol Endocrinol Metab. 2013 Feb 15; 304 (4):E414-23. 4. Nagata T, et al. Br J Pharmacol. 2013 Oct; 170 (3):519-31.

NCBI AND UNIPROT INFORMATION

Molecular Weight	404.50
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/tofogliflozin-hydrate/201894>