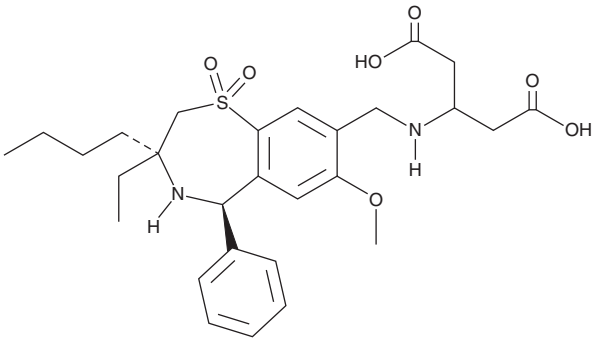
PRODUCT INFORMATION

GSK2330672

Item No. 23843



CAS Registry No.:	1345982-69-5
Formal Name:	3-[[[(3R,5R)-3-butyl-3-ethyl-2,3,4,5-tetrahydro-7-methoxy-1,1-dioxido-5-phenyl-1,4-benzothiazepin-8-yl]methyl]amino]-pentanedioic acid
MF:	$C_{28}H_{38}N_2O_7S$
FW:	546.7
Purity:	≥98%
UV/Vis.:	λ_{max}: 206, 238 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years

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

Laboratory Procedures

GSK2330672 is supplied as a crystalline solid. A stock solution may be made by dissolving the GSK2330672 in the solvent of choice, which should be purged with an inert gas. GSK2330672 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of GSK2330672 in these solvents is approximately 2 and 5 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of GSK2330672 can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of GSK2330672 in PBS (pH 7.2) is approximately 0.2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

GSK2330672 is an inhibitor of the sodium/bile acid and sulfated solute cotransporter (ASBT; IC_{50}s = 42, 2.1, and 1.9 nM for human, mouse, and rat ASBT, respectively).[1] *In vivo*, GSK2330672 (0.05 mg/kg) stimulates fecal bile acid secretion, reduces hemoglobin A1c (HbA1c) and plasma glucose levels, and increases total GLP-1 (Item No. 24460) and plasma insulin in Zucker diabetic fatty (ZDF) rats.

Reference

1. Wu, Y., Aquino, C.J., Cowan, D.J., *et al.* Discovery of a highly potent, nonabsorbable apical sodium-dependent bile acid transporter inhibitor (GSK2330672) for treatment of type 2 diabetes. *J. Med. Chem.* **56(12)**, 5094-5114 (2013).

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