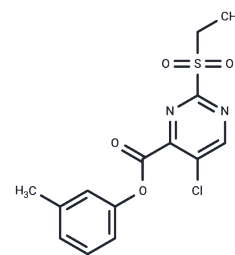


SBI-115

Chemical Properties

CAS No. : 882366-16-7
 Formula: C₁₄H₁₃ClN₂O₄S
 Molecular Weight: 340.78
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	SBI-115 is an antagonist of TGR5. SBI-115 decreases hepatic cystogenesis with polycystic liver diseases via inhibiting TGR5
Targets(IC50)	GPCR19
In vivo	Stimulation of cholangiocytes with TLCA following by SBI-115 treatment resulted in dose-dependent (by 32-48%) inhibition of cell proliferation.
Cell Research	cAMP was detected by the Bridge-It cAMP designer cAMP assay. Cholangiocytes (10,000 /well) were incubated with TLCA, OA, C1 and C2 (all, 25 μM), SBI-115 (100 and 200 μM) and pasireotide (20 μM) for 15-30 min. Doses of drugs were chosen based on published data or dose ranging (SBI-115). Cell proliferation was determined by CellTiter 96 Aqueous One Solution Cell Proliferation Assay and by cell counting using the Cellometer Auto4 cell counter. Cholangiocytes (2500 cells/well) were grown for 24-48 hours and then treated with TGR5 agonists (all, 25 μM), SBI-115 (100 and 200 μM) and pasireotide (20 μM) for additional 24 hours. Alterations in cell proliferation after treatment were expressed as percent change compared to un-treated cholangiocytes in which cell proliferation was considered to be equal 100%.

Solubility Information

Solubility	DMSO: 150 mg/mL (440.17 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (11.74 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9344 mL	14.6722 mL	29.3444 mL
5 mM	0.5869 mL	2.9344 mL	5.8689 mL
10 mM	0.2934 mL	1.4672 mL	2.9344 mL
50 mM	0.0587 mL	0.2934 mL	0.5869 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Masyuk TV, Masyuk AI, Lorenzo Pisarello M, et al. TGR5 contributes to hepatic cystogenesis in rodents with polycystic liver diseases through cyclic adenosine monophosphate/G α s signaling[J]. *Hepatology*. 2017 Oct;66(4):1197-1218.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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