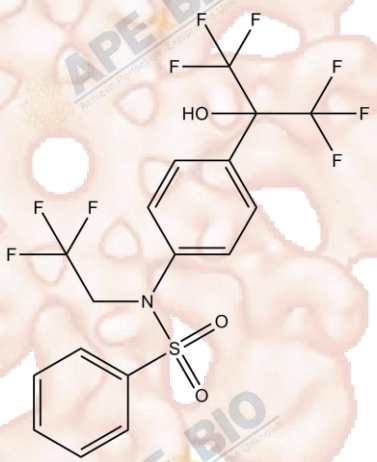
Product Data Sheet

T0901317



Cat. No.:	A2249
CAS No.:	293754-55-9
Formula:	C17H12F9NO3S
M.Wt:	481.33
Synonyms:	
Target:	Others
Pathway:	LXR
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

⩾24.05 mg/mL in DMSO; insoluble in H2O; ⩾55.6 mg/mL in EtOH

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	2.0776 mL	10.3879 mL	20.7758 mL
5 mM	0.4155 mL	2.0776 mL	4.1552 mL
10 mM	0.2078 mL	1.0388 mL	2.0776 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Liver X receptor agonist,potent and selective
IC_{50} & Target	7 nM (LXRα), 22 nM (LXRβ)

In Vitro

Cell Viability Assay

Cell Line:	HEK293 cells transfected with an expression plasmid for the human LXRα.
Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

	Reacting conditions:	20 h.
	Applications:	T0901317 is a highly potent and selective nonsteroidal LXR ligand. T0901317 induces transcriptional activity of LXRα nearly 8-fold with EC50 value of 20 nM. T0901317 also transactivates chimeric Gal4-LXRα and Gal4-PXR (pregnane X receptor).
In Vivo	**Animal experiment**	
	Animal models:	6- to 10-week-old C57BL/6 mice; 12- to 16-week-old Golden Syrian Hamsters.
	Dosage form:	Mice: 5, 50 mg/kg orally. Hamsters: 3, 10, 30 mg/kg orally.
	Applications:	Oral treatment of C57BL/6 mice with T0901317 significantly increases the level of plasma triglycerides. In hamsters, T0901317 also increases plasma triglycerides. Also, T0901317 increases the expression of fatty acid metabolism-associated genes and hepatic fatty acid biosynthetic genes (ACC (2-fold), FAS (3-fold) and SCD-1 (9-fold)).
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Schultz JR, Tu H, Luk A, et al. Role of LXRs in control of lipogenesis. Genes Dev, 2000, 14(22): 2831-2838.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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