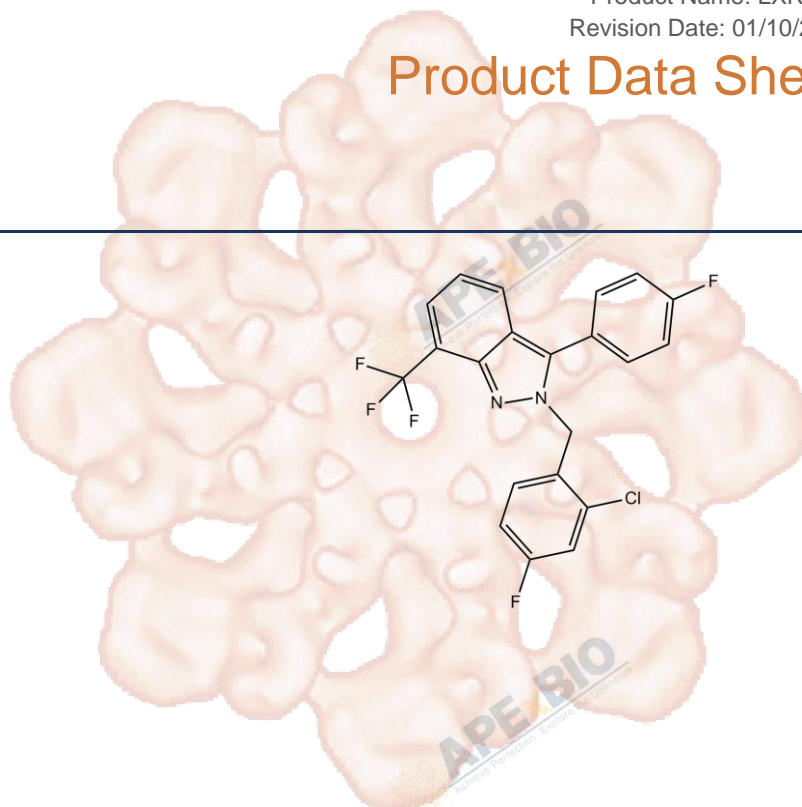


# Product Data Sheet

## LXR-623

<b>Cat. No.:</b>	B1264
<b>CAS No.:</b>	875787-07-8
<b>Formula:</b>	C <sub>21</sub> H <sub>12</sub> ClF <sub>5</sub> N <sub>2</sub>
<b>M.Wt:</b>	422.78
<b>Synonyms:</b>	
<b>Target:</b>	Others
<b>Pathway:</b>	LXR
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

insoluble in H<sub>2</sub>O; ≥15.49 mg/mL in EtOH with ultrasonic; ≥19.4 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	2.3653 mL	11.8265 mL	23.6530 mL
	<b>5 mM</b>	0.4731 mL	2.3653 mL	4.7306 mL
	<b>10 mM</b>	0.2365 mL	1.1826 mL	2.3653 mL

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

### Biological Activity

Shortsummary

Liver X-receptor agonist

IC<sub>50</sub> & Target

In Vitro

#### Cell Viability Assay

Cell Line:	Human peripheral blood mononuclear cells
Preparation method:	The solubility of this compound in DMSO is >19.4mg/mL. 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:	2 μM, 18 hours

	Applications:	LXR-623 (2 $\mu$ M for either 24 or 48 hours) treatment significantly upregulated mRNA for ABCA1, ABCG1, and PLTP in human PBMC. In PBMC, monocytes, T cells, and B cells, treatment with 2 $\mu$ M LXR-623 for 18 hours resulted in approximately 6 fold induction of ABCA1 mRNA levels.
In Vivo	<b>Animal experiment</b>	
	Animal models:	C57/Bl6 mice, Normal male rats
	Dosage form:	Oral administration, 50 mg/kg, 30 mg/kg
	Applications:	Oral administration of LXR-623 (30 mg/kg) induced ABCA1 and ABCG1 gene expression in rodent peripheral blood cells in vivo.
	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

- Xu D, He H, et al. "SIRT2 plays a novel role on progesterone, estradiol and testosterone synthesis via PPARs/LXR $\alpha$  pathways in bovine ovarian granular cells." J Steroid Biochem Mol Biol. 2018 Aug 7. pii: S0960-0760(18)30023-2.PMID:30009951
- Xian X, Ding Y, et al. "LRP1 integrates murine macrophage cholesterol homeostasis and inflammatory responses in atherosclerosis." Elife. 2017 Nov 16;6.pii: e29292.PMID:29144234

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## References

- [1]. DiBlasio-Smith E A, Arai M, Quinet E M, et al. Discovery and implementation of transcriptional biomarkers of synthetic LXR agonists in peripheral blood cells[J]. Journal of translational medicine, 2008, 6(1): 59.

## 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. Short-term 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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## APExBIO Technology

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