



LXR-623

Catalog No: tcsc1721

	Available Sizes
Size: 5r	ng
Size: 10	Omg
Size: 50	Omg
Size: 10	00mg
Size: 20	00mg
S	Specifications
CAS No 875787-	
Formul	
Pathwa Metabol	iy: ic Enzyme/Protease
Target:	
Purity / >98%	' Grade:
Solubil i DMSO :	ity: ≥ 47 mg/mL (111.17 mM)
Alterna WAY 253	itive Names: 2623





Observed Molecular Weight:

422.78

Product Description

LXR-623 is a brain-penetrant partial $\mathbf{LXR}\alpha$ and full $\mathbf{LXR}\beta$ agonist, with \mathbf{IC}_{50} s of 24 nM and 179 nM, respectively.

IC50 & Target: IC50: 24 nM (LXR- α), 179 nM (LXR- β)^{[2][3]}

In Vitro: LXR-623 potently kills U87EGFRvIII and GBM39 cells in vitro while completely sparing NHAs. LXR-623 also increases ABCA1 protein and decreases LDLR protein levels in all three cell lines. LXR-623 suppresses LDLR expression, increases expression of the ABCA1 efflux transporter, and induces substantial cell death in all of the GBM samples tested. LXR-623 (5 μ M) also induces GBM cell death through activation of LXR β ^[1]. LXR-623 treatment of human PBMC in vitro significantly increases transcription of ABCA1 and ABCG1^[4].

In Vivo: LXR-623 (400 mg/kg, p.o.) crosses the blood-brain barrier, induces target gene expression, and achieves therapeutic levels in GBM cells in the brain with minimal activity in the periphery. LXR-623 inhibits tumor growth, promotes tumor cell death, and prolongs the survival of mice bearing intracranial patient-derived GBMs^[1]. LXR-623 (1.5, 5 mg/kg/day) significantly reduces progression of atherosclerosis in animals compared with the placebo group^[2]. WAY-252623 (15 and 50 mg/kg) results in a significant reduction of atherosclerosis in a dose-dependent manner. WAY-252623 (20, 60, and 120 mg/kg/day, p.o.) displays neutral lipid effects in this CETP-expressing Syrian hamster^[3]. Moreover, LXR-623 (50 mg/kg) induces gene expression in rodent peripheral blood cells in rat. LXR-623 (0, 15 and 50 mg/kg) dose-dependently upregulates transcription of ABCA1 and ABCG1 in monkey whole blood cells proportional to dose^[4].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!