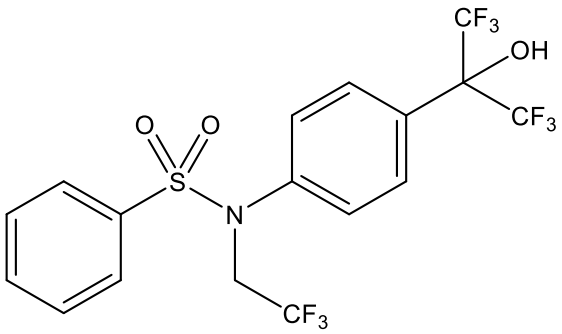
Catalog # 10-3361

T0901317

293754-55-9

N-(2,2,2-Trifluoroethyl)-N-[4-[2,2,2-trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]phenyl]-benzenesulfonamide

Lot # X103457



A potent high affinity liver X receptor (LXRα and β) agonist, EC_{50}~50 nM.[1] Upregulates expression of ABCA1, a reverse cholesterol transporter, resulting in inhibition of cholesterol absorption. Inverse agonist at CAR.[2] T0901317 was also shown to be an FXR agonist at lower potency than LXR thus appropriate controls must be employed when using this compound as a pharmacological tool.[3] Decreases amyloid beta production in a mouse model of Alzheimer's disease.[4] Inhibits cellular senescence in endothelial cells.[5]

1) Repa *et al*. (2000), *Regulation of absorption and ABC1-mediated efflux of cholesterol by RXR heterodimers*; Science, **289** 1524

2) Kanno *et al.* (2013) *T0901317, a potent LXR agonist, is an inverse agonist of CAR*; J. Toxicol. Sci., **38** 309

3) Houck *et al.* (2004) *T0901317 is a dual LXR/FXR agonist*; Mol. Genet. Metab., **83** 4079

4) Koldamova *et al.* (2005) *The liver X receptor ligand T0901317 decreases amyloid beta production in vitro and in a mouse model of Alzheimer's disease*; J. Biol. Chem., **280** 4079

5) Hayashi *et al.* (2014) *Endothelial cellular senescence is inhibited by liver X receptor activation with an additional mechanism for its atheroprotection in diabetes*; Proc. Natl. Acad. Sci. USA, **111** 1168

PHYSICAL DATA

Molecular Weight:	481.33
Molecular Formula:	$C_{17}H_{12}F_9NO_3S$
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (50 mg/ml); Ethanol (50 mg/ml)
Physical Description:	White to off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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