Certificate of Analysis

Print Date: Nov 10th 2017

Product Name: T 0901317

www.tocris.com

Catalog No.: 2373 Batch No.: 2

CAS Number: 293754-55-9

FOCR

biotechne

IUPAC Name:

Storage:

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₁₇H₁₂F₉NO₃S 481.33 White solid DMSO to 100 mM ethanol to 100 mM Store at +4°C

CF₃ HO CF₃ CF3

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.5% purity Consistent with structure Consistent with structure

	Carbon	Hydrogen	Nitrogen
Theoretical	42.42	2.51	2.91
Found	42.17	2.42	2.78

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

TOCRIS a biotechne brand

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IUPAC Name:

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

Description:

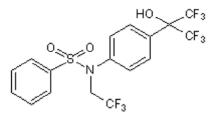
Potent, high affinity liver X receptor (LXR) agonist (EC₅₀ ~ 50 nM, K_d values are 7 and 22 nM for LXR- α and LXR- β respectively). Upregulates expression of the ABCA1 gene associated with cholesterol efflux regulation and HDL metabolism. Decreases amyloid- β production in primary neurons in vitro. Displays an EC₅₀ of ~ 5 μ M for activation of bile acid farnesoid X receptors (FXRs); 10-fold more potent than natural FXR ligand chenodeoxycholic acid. Also exhibits inverse agonist activity at constitutive androstane receptors (CAR).

Physical and Chemical Properties:

Batch Molecular Formula: C₁₇H₁₂F₉NO₃S Batch Molecular Weight: 481.33 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Catalog No.: 2373

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Kanno et al (2013) T0901317, a potent LXR agonist, is an inverse agonist of CAR. J.Toxicol.Sci. 38 309. PMID: 23665929.

Mitro et al (2007) The nuclear receptor LXR is a glucose sensor. Nature Lett. 445 219.

Koldamova *et al* (2005) The liver X receptor ligand T0901317 decreases amyloid β production *in vitro* and in a mouse model of Alzheimer's disease. J.Biol.Chem. **280** 4079. PMID: 15557325.

Houck et al (2004) T0901317 is a dual LXR/FXR agonist. Mol.Gen.Metab. 83 184.

Repa *et al* (2000) Regulation of absorption and ABC1-mediated efflux of cholesterol by RXR heterodimers. Science **289** 1524. PMID: 10968783.

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