Print Date: May 14th 2019

Certificate of Analysis

www.tocris.com

Product Name: **WAY 316606 hydrochloride** **Catalog No.: 4767** **Batch No.: 1**

CAS Number: 1781835-02-6

IUPAC Name: 5-(Phenylsulfonyl)-*N*-4-piperidinyl-2-(trifluoromethyl)benzene sulfonamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{19}F_3N_2O_4S_2.HCl$

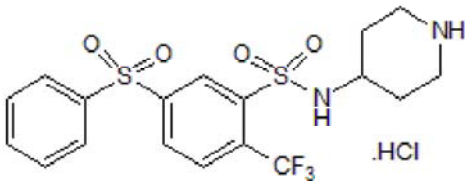
Batch Molecular Weight: 484.94

Physical Appearance: White solid

Solubility: DMSO to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.56 (Pyridine:Acetic acid:Water:Butanol [3:8:11:44])

HPLC: Shows 99.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.58	4.16	5.78
Found	44.64	4.16	5.95

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

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Description:

Secreted Frizzled-Related Protein-1 (sFRP-1) inhibitor (IC_{50} = 0.65 µM); prevents sFRP-1 from interacting with Wnt and thus increases Wnt signaling. Increases total bone area in a murine calvarial organ culture assay. We are aware of a study in PLOS Biology where WAY-316606 was found to stimulate hair follicle growth. Please note that WAY-316606 from Tocris is for laboratory research use only, and that we will only sell to established scientific businesses and institutes.

Physical and Chemical Properties:

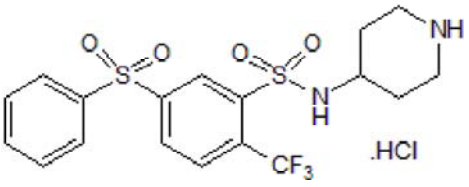
Batch Molecular Formula: $C_{18}H_{19}F_3N_2O_4S_2.HCl$

Batch Molecular Weight: 484.94

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 20 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).

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:

Moore *et al* (2010) Modulation of Wnt signaling through inhibition of secreted frizzled-related protein I (sFRP-1) with N-substituted piperidinyl diphenylsulfonyl sulfonamides: part II. Bioorg.Med.Chem. ***18*** 190. PMID: 19932972.

Bodine *et al* (2009) A small molecule inhibitor of the Wnt antagonist secreted frizzled-related protein-1 stimulates bone formation. Bone ***44*** 1063. PMID: 19254787.

Moore *et al* (2009) Modulation of Wnt signaling through inhibition of secreted frizzled-related protein I (sFRP-1) with N-substituted piperidinyl diphenylsulfonyl sulfonamides. J.Med.Chem. ***52*** 105. PMID: 19072540.