TOCRIS
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Print Date: Aug 3rd 2016

Certificate of Analysis

www.tocris.com

Product Name: **PF 9184** **Catalog No.: 5917** **Batch No.: 1**

CAS Number: 1221971-47-6

IUPAC Name: *N*-[3',4'-Dichloro(1,1'-biphenyl)-yl]-4-hydroxy-2*H*-1,2-benzothiazine-3-carboxamide 1,1-dioxide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{21}H_{14}Cl_2N_2O_4S$

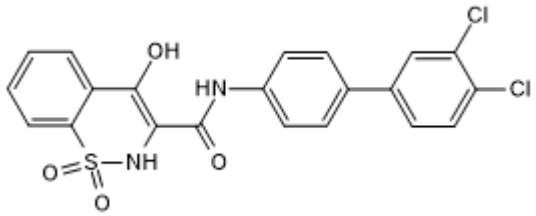
Batch Molecular Weight: 461.32

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.68	3.06	6.07
Found	54.89	3.11	6.04

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

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Description:

Potent microsomal prostaglandin E synthase 1 (mPGES-1) inhibitor (IC_{50} values are 16.5 and 1080 nM for human and rat mPGES-1, respectively). Exhibits >6500-fold selectivity for mPGES-1 over COX-1 and COX-2. Inhibits IL-1β-induced PGE_2 synthesis in vitro.

Physical and Chemical Properties:

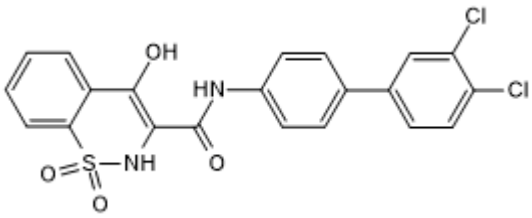
Batch Molecular Formula: $C_{21}H_{14}Cl_2N_2O_4S$

Batch Molecular Weight: 461.32

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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).

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:

Mbalaviele *et al* (2010) Distinction of microsomal prostaglandin E synthase-1 (mPGES-1) inhibition from cyclooxygenase-2 inhibition in cells using a novel, selective mPGES-1 inhibitor. Biochem.Pharmacol. ***79*** 1445. PMID: 20067770.

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