Print Date: Feb 25th 2021

Certificate of Analysis

www.tocris.com

Product Name: **CP 471474** **Catalog No.: 3780** **Batch No.: 1**

CAS Number: 210755-45-6

IUPAC Name: 2-[[[4-(4-Fluorophenoxy)phenyl]sulfonyl]amino]-*N*-hydroxy-2-methylpropanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{16}FN_2O_5S$

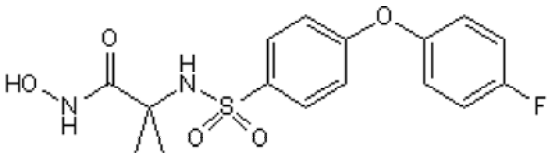
Batch Molecular Weight: 368.38

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.17	4.65	7.6
Found	52.17	4.63	7.55

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Product Information

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Description:

Broad spectrum MMP inhibitor (IC_{50} values are 0.7, 0.9, 13, 16 and 1170 nM for MMP-2, MMP-13, MMP-9, MMP-3 and MMP-1 respectively). Attenuates early left ventricular dilation after experimental myocardial infarction in mice.

Physical and Chemical Properties:

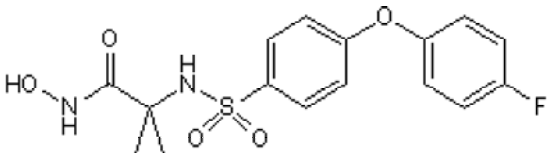
Batch Molecular Formula: $C_{16}H_{16}FN_2O_5S$

Batch Molecular Weight: 368.38

Physical Appearance: Off-white solid

Minimum Purity: ≥97%

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.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc.

References:

Fang *et al* (2007) Differences in inflammation, MMP activation and collagen damage account for gender difference in murine cardiac rupture following myocardial infarction. J.Mol.Cell.Cardiol. ***43*** 535. PMID: 17689559.

Lindsey *et al* (2002) Selective matrix metalloproteinase inhibition reduces left ventricular remodeling but does not inhibit angiogenesis after myocardial infarction. Circulation ***105*** 753. PMID: 11839633.

Rohde *et al* (1999) Matrix metalloproteinase inhibition attenuates early left ventricular enlargement after experimental myocardial infarction in mice. Circulation ***99*** 3063. PMID: 10368126.