

Certificate of Analysis

Product Name: PF 06281355

Catalog No.: 6004

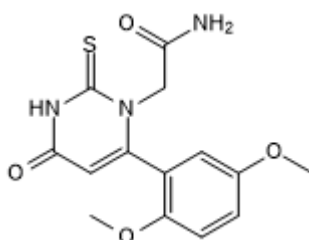
Batch No.: 1

CAS Number: 1435467-38-1

IUPAC Name: 6-(2,5-Dimethoxyphenyl)-3,4-dihydro-4-oxo-2-thioxo-1(2H)-pyrimidineacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₄ H ₁₅ N ₃ O ₄ S
Batch Molecular Weight:	321.35
Physical Appearance:	Off White solid
Solubility:	DMSO to 20 mM with gentle warming
Storage:	Store at RT
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon	Hydrogen	Nitrogen
Theoretical	52.33	4.71	13.08
Found	52.26	4.59	13.02

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

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Description:

Selective myeloperoxidase (MPO) inhibitor (IC_{50} = 1.5 μ M in LPS-stimulated human whole blood). Selective for MPO over a panel of 50 receptors, enzymes, ion channels and transporters, including thyroid peroxidase. Inhibits MPO activity in peritoneal lavage and plasma in a murine peritonitis model. Also reduces lung edema in a murine pulmonary immune complex vasculitis model. Orally bioavailable.

Physical and Chemical Properties:

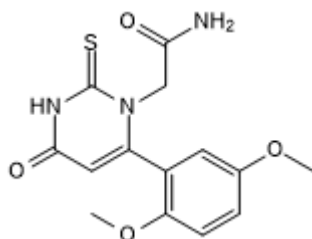
Batch Molecular Formula: $C_{14}H_{15}N_3O_4S$

Batch Molecular Weight: 321.35

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Ruggeri et al (2015) Discovery of 2-(6-(5-chloro-2-methoxyphenyl)-4-oxo-2-thioxo-3,4-dihydropyrimidin-1(2H)-yl)acetamide (PF-06282999): A highly selective mechanism-based myeloperoxidase inhibitor for the treatment of cardiovascular diseases. *J.Med.Chem.* **58** 8513. PMID: 26509551 .

Zheng et al (2015) PF-1355, a mechanism-based myeloperoxidase inhibitor, prevents immune complex vasculitis and anti-glomerular basement membrane glomerulonephritis. *J.Pharmacol.Exp.Ther.* **353** 288. PMID: 25698787 .

Storage: Store at RT

Solubility & Usage Info:

DMSO to 20 mM with gentle warming

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

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