

Product Name: PFM 01

Catalog No.: 6222

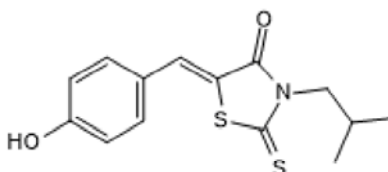
Batch No.: 1

CAS Number: 1558598-41-6

IUPAC Name: (5Z)-5-[(4-Hydroxyphenyl)methylene]-3-(2-methylpropyl)-2-thioxo-4-thiazolidinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₅NO₂S₂
Batch Molecular Weight: 293.4
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.31	5.15	4.77
Found	57.14	5.23	4.69

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

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IUPAC Name: (5Z)-5-[(4-Hydroxyphenyl)methylene]-3-(2-methylpropyl)-2-thioxo-4-thiazolidinone

Description:

MRE11 endonuclease inhibitor. Prevents double-stranded break (DSB) resection. Enhances non-homologous end-joining (NHEJ) and reduces homologous recombination.

Physical and Chemical Properties:

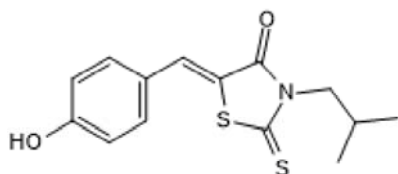
Batch Molecular Formula: C₁₄H₁₅NO₂S₂

Batch Molecular Weight: 293.4

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°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).

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:

Shibata *et al* (2014) DNA double-strand break repair pathway choice is directed by distinct MRE11 nuclease activities. *Mol.Cell* **53** 7. PMID: 24316220.

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