

Product Name: OXF BD 02

Catalog No.: 4928

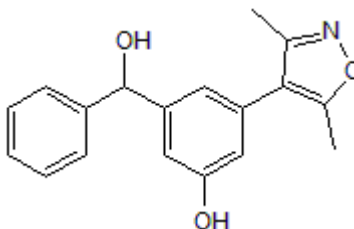
Batch No.: 1

CAS Number: 1429129-68-9

IUPAC Name: 3-(3,5-Dimethyl-4-isoxazolyl)-5-hydroxy- α -phenylbenzenemethanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₇NO₃
Batch Molecular Weight: 295.33
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.1% purity
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	73.2	5.8	4.74
Found	73.16	5.75	4.87

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

Product Name: OXF BD 02

Catalog No.: 4928

Batch No.: 1

CAS Number: 1429129-68-9

IUPAC Name: 3-(3,5-Dimethyl-4-isoxazolyl)-5-hydroxy- α -phenylbenzenemethanol

Description:

Selective inhibitor of the first bromodomain of BRD4 (BRD4(1)) (IC₅₀ = 382 nM). Exhibits 2-3-fold selectivity for BRD4(1) over the CBP bromodomain and has little affinity for a range of other bromodomains. Reduces viability of lung adenocarcinoma cell lines and attenuates proliferation of MV-4-11 leukemia cells. Cell permeable.

Physical and Chemical Properties:

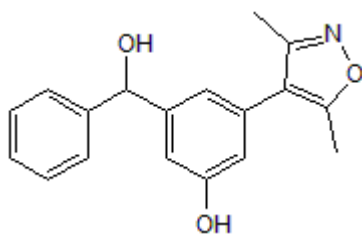
Batch Molecular Formula: C₁₈H₁₇NO₃

Batch Molecular Weight: 295.33

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Hewings et al (2011) 3,5-dimethylisoxazoles act as acetyl-lysine-mimetic bromodomain ligands. *J.Med.Chem.* **54** 6761. PMID: 21851057.

Hewings et al (2013) Optimization of 3,5-dimethylisoxazole derivatives as potent bromodomain ligands. *J.Med.Chem.* **56** 3217. PMID: 23517011.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 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.

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

Tocris Bioscience is an R&D Systems company

USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373

www.RnDSystems.com