

Certificate of Analysis

Product Name: IOX 2

Catalog No.: 4451

Batch No.: 1

CAS Number: 931398-72-0

IUPAC Name: *N*-[[1,2-Dihydro-4-hydroxy-2-oxo-1-(phenylmethyl)-3-quinolinyl]carbonyl]glycine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₆N₂O₅·½H₂O

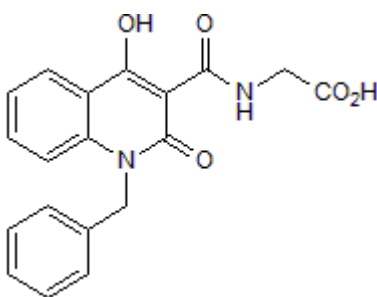
Batch Molecular Weight: 356.84

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.95	4.66	7.85
Found	64.1	4.59	7.93

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

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Description:

Potent inhibitor of HIF-1 α prolyl hydroxylase-2 (PHD2) (IC₅₀ = 21 nM). Displays over 100-fold selectivity for PHD2 over factor inhibiting HIF-1 (FIH-1) and histone demethylases JMJD2A, JMJD2C, JMJD2E and JMJD3. Cell permeable.

Physical and Chemical Properties:

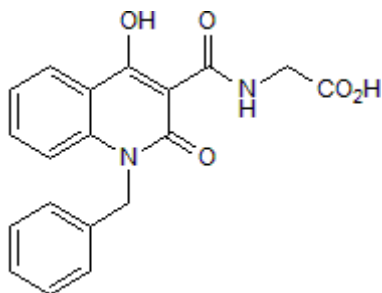
Batch Molecular Formula: C₁₉H₁₆N₂O₅· $\frac{1}{4}$ H₂O

Batch Molecular Weight: 356.84

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Murray et al (2010) Dipeptidyl-quinolone derivatives inhibit hypoxia inducible factor-1 α prolyl hydroxylases-1, -2, and -3 with altered selectivity. *J.Comb.Chem.* **12** 676. PMID: 20666436.

Storage: Store at +4°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.

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