

Certificate of Analysis

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Product Name: CW 008

Catalog No.: 5495

Batch No.: 1

CAS Number: 1134613-19-6

IUPAC Name: 4-Fluoro-*N*-[5-fluoro-6-(5-methoxy-pyrazolo[1,5-*a*]pyridin-3-yl)-1*H*-pyrazolo[3,4-*b*]pyridin-3-yl]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₁₄F₂N₆O₂·³/₄H₂O

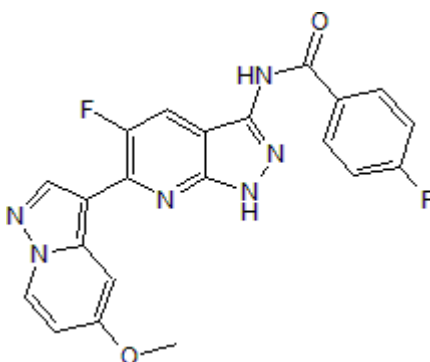
Batch Molecular Weight: 433.88

Physical Appearance: Pale yellow solid

Solubility: DMSO to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.38 (Dichloromethane:Methanol [95:5])

HPLC: Shows 98.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.13	3.6	19.37
Found	57.91	3.27	19.16

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

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Description:

cAMP/PKA/CREB pathway activator. Promotes osteogenic differentiation of human bone marrow-derived MSCs in vitro. Increases bone mass and bone volume density in ovariectomized mice.

Physical and Chemical Properties:

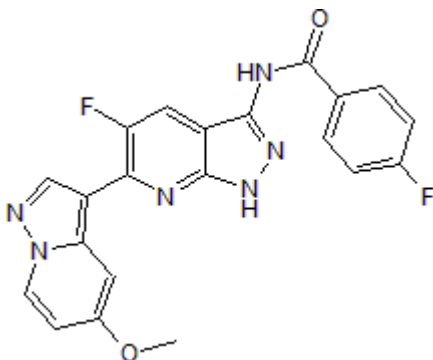
Batch Molecular Formula: C₂₁H₁₄F₂N₆O₂·¾H₂O

Batch Molecular Weight: 433.88

Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 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:

Kim et al (2013) An activator of the cAMP/PKA/CREB pathway promotes osteogenesis from human mesenchymal stem cells. *J.Cell.Physiol.* **228** 617. PMID: 22886506.

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