Print Date: Dec 12th 2019

Certificate of Analysis

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Product Name: **AF 64394** **Catalog No.: 6931** **Batch No.: 1**

CAS Number: 1637300-25-4

IUPAC Name: *N*-[[4-Chloro-2-(1-methylethoxy)phenyl]methyl]-5-phenyl-[1,2,4]triazolo[1,5-*a*]pyrimidin-7-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{21}H_{20}ClN_5O.¾H_2O$

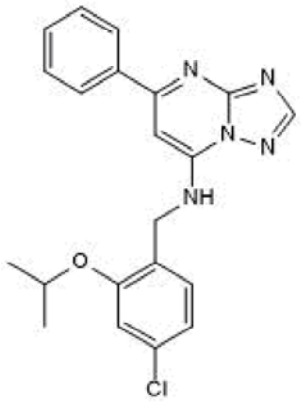
Batch Molecular Weight: 407.38

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.91	5.32	17.19
Found	61.64	4.91	16.86

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Product Information

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Description:

Potent and selective GPR3 inverse agonist (pIC_{50} = 7.3). Selective for GPR3 over GPR6 and GPR12 (pIC_{50} values are 5.1 and 4.9, respectively).

Physical and Chemical Properties:

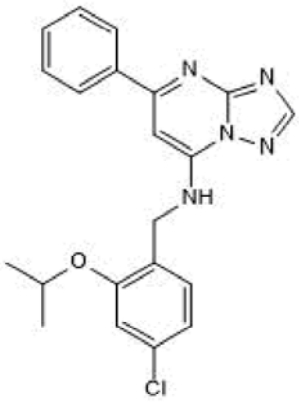
Batch Molecular Formula: $C_{21}H_{20}ClN_5O.¾H_2O$

Batch Molecular Weight: 407.38

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°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.

References:

Godlewski *et al* (2015) Mice lacking GPR3 receptors display late-onset obese phenotype due to impaired thermogenic function in brown adipose tissue. Sci.Rep. ***5*** 14953. PMID: 26455425.

Jensen *et al* (2014) The identification of GPR3 inverse agonist AF64394; the first small molecule inhibitor of GPR3 receptor function. Bioorg.Med.Chem.Lett. ***24*** 5195. PMID: 25442311 .