



Certificate of Analysis

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Product Name: MSC 1186 Catalog No.: 7927 Batch No.: 1

CAS Number: 2871698-23-4

methylmethanesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₇CIFN₇O₂S.½H₂O

Batch Molecular Weight: 470.91

Physical Appearance:Pale beige solidSolubility:DMSO to 50 mMStorage:Store at -20°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 48.46 3.85 20.82 Found 47.6 3.93 20.22

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



Product Information

Print Date: Mar 11th 2024

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Product Name: MSC 1186 Catalog No.: 7927 1

CAS Number: 2871698-23-4

IUPAC Name: N-[3-[[[2-(6-Chloro-7-fluoro-1H-benzimidazol-2-yl)-4-pyrimidinyl]amino]methyl]-2-pyridinyl]-N-

methylmethanesulfonamide

Description:

MSC1186 is a potent and selective inhibitor of serine arginine protein kinases (SRPK) 3, 1 and 2 (IC $_{50}$ values are 0.6 nM, 3 nM and 81 nM respectively in biochemical assay; EC $_{50}$ values in NanoBRETassay are 40 nM, 98 nM and 149 nM, respectively). Shows no activity at CLK and DYRK families (IC $_{50}$ >10 μ M).

Physical and Chemical Properties:

Batch Molecular Formula: C₁₉H₁₇CIFN₇O₂S.½H₂O

Batch Molecular Weight: 470.91 Physical Appearance: Pale beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:

Storage: Store at -20°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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

Licensing Information:

This probe is supplied in conjunction with the Structural Genomics Consortium. For further characterization details, please visit the MSC 1186 probe summary on the SGC website.

References:

Schröder et al (2023) MSC-1186, a highly selective pan-SRPK inhibitor based on an exceptionally decorated benzimidazole-pyrimidine core. J.Med.Chem. 66 837. PMID: 36516476.

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