

Certificate of Analysis

Print Date: Jul 24th 2023

www.tocris.com

Product Name: C 101248 Catalog No.: 8007 Batch No.: 1

CAS Number: 361368-24-3

IUPAC Name: 4-[1-(4-Pyridinylmethyl)-1*H*-benzimidazol-2-yl]-1,2,5-oxadiazol-3-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{12}N_6O$.

Batch Molecular Weight: 292.3

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 61.64 4.14 28.75 Found 61.52 4.1 28.6

Tel: +44 (0)1235 529449 www.tocris.com/distributors Tel:+1 612 379 2956



Product Information

Print Date: Jul 24th 2023

www.tocris.com

Product Name: C 101248 Catalog No.: 8007 1

CAS Number: 361368-24-3

IUPAC Name: 4-[1-(4-Pyridinylmethyl)-1*H*-benzimidazol-2-yl]-1,2,5-oxadiazol-3-amine

Description:

Physical and Chemical Properties:

Batch Molecular Formula: C₁₅H₁₂N₆O. Batch Molecular Weight: 292.3 Physical Appearance: Beige 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. *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.

References:

Ossola et al (2022) Characterisation of C101248: a novel selective THIK-1 channel inhibitor for the modulation of microglial NLRP3-inflammasome. Neuropharmacology **224** 109330. PMID: 36375694.

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