Certificate of Analysis

www.tocris.com

Print Date: May 22nd 2020

CU-T12-9 Product Name:

CAS Number: 1821387-73-8

IUPAC Name: N-Methyl-4-nitro-2-(4-(4-trifluoromethyl)phenyl)-1H-imidazol-1-yl)aniline

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

 $C_{17}H_{13}F_3N_4O_2$ 362.31 Yellow solid DMSO to 100 mM ethanol to 20 mM Store at +4°C

021 NH

CF₃

2. ANALYTICAL DATA

Storage:

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

R_f = 0.56 (Chloroform:Methanol [95:5]) Shows 99.8% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

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Theoretical	56.36	3.62	15.46
Found	56.47	3.59	15.44

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956



Catalog No.: 5414 Batch No.: 1

TOCRIS a biotechne brand

Product Information

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Description:

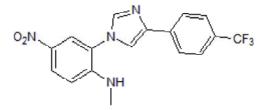
Potent TLR1/2 agonist (EC₅₀ = 52.9 nM). Activates the NF- κ B pathway and upregulates proinflammatory cytokines in vitro. Also enhances TLR1 and TLR2 dimerization.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₇H₁₃F₃N₄O₂ Batch Molecular Weight: 362.31 Physical Appearance: Yellow solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info: DMSO to 100 mM ethanol to 20 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.

Licensing Information:

Sold under license from the University of Colorado

References:

Cheng et al (2015) Specific activation of the TLR1-TLR2 heterodimer by small-molecule agonists Sci.Adv. 1 e1400139. PMID: 26101787.

Cheng et al (2013) Discovery of small molecule inhibitors of the TLR1-TLR2 complex. Angew.Chem.Int.Ed.Engl. 51 12246. PMID: 22969053.

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bio-techne.comNorth AmericaChinaEurope Middle East AfricaRest of Worldinfo@bio-techne.comTel: (800) 343 7475info.cn@bio-techne.comTel: +44 (0)1235 529449www.tocris.com/distributorstechsupport@bio-techne.comTel: +86 (21) 52380373Tel: +44 (0)1235 529449tel: +1612 379 2956

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