bio-techne
TOCRIS

Print Date: Dec 18th 2024

Certificate of Analysis

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Product Name: **CID 16020046** **Catalog No.: 4959** **Batch No.: 3**

CAS Number: 834903-43-4

IUPAC Name: 4-[4,6-Dihydro-4-(3-hydroxyphenyl)-3-(4-methylphenyl)-6-oxopyrrolo[3,4-*c*]pyrazol-5(1*H*)-yl]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{25}H_{19}N_3O_4.½H_2O$

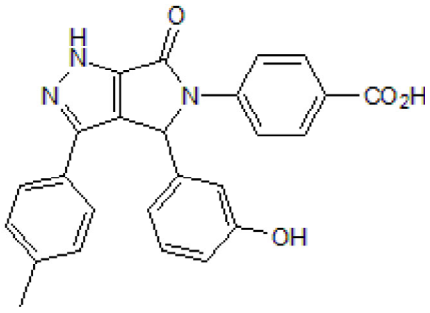
Batch Molecular Weight: 434.45

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.12	4.64	9.67
Found	68.17	4.52	9.46

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

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

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Description:

CID 16020046 is a selective GPR55 antagonist. Inhibits LPI-induced Ca^{2+} signaling (IC_{50} = 0.21 µM in HEK-GPR55 cells), ERK1/2 phosphorylation and GPR55-mediated transcription factor activation. Displays weak inhibition of acetylcholinesterase, µ-opioid receptor, KCNH2 and hERG. Decreases LPI-induced GPR55 internalization. Reduces experimental intestinal inflammation in mice.

Physical and Chemical Properties:

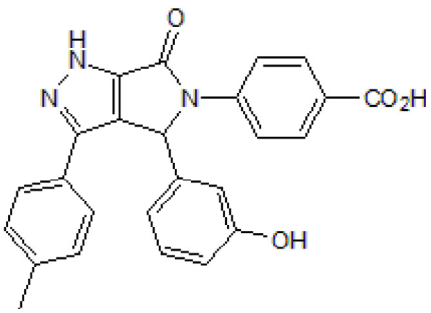
Batch Molecular Formula: $C_{25}H_{19}N_3O_4.½H_2O$

Batch Molecular Weight: 434.45

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°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:

Stančić *et al* (2015) The GPR55 antagonist CID16020046 protects against intestinal inflammation. Neurogastroenterol.Motil ***27*** 1432. PMID: 26227635.

Kargl *et al* (2013) A selective antagonist reveals a potential role of G protein-coupled receptor 55 in platelet and endothelial cell function. J.Pharmacol.Exp.Ther. ***346*** 54. PMID: 23639801.