TOCRIS a bio-techne brand

Print Date: Jun 20th 2018

Certificate of Analysis

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Product Name: **TG 4-155** **Catalog No.: 5052** **Batch No.: 2**

CAS Number: 1164462-05-8

IUPAC Name: (2*E*)-*N*-[2-(2-Methyl-1*H*-indol-1-yl)ethyl]-3-(3,4,5-trimethoxyphenyl)-2-propenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{23}H_{26}N_2O_4.¼H_2O$

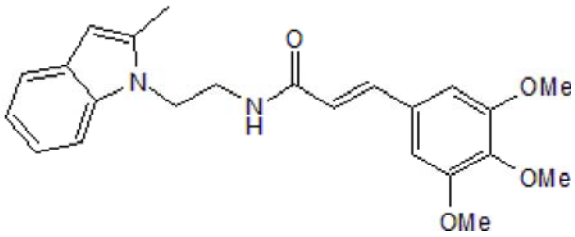
Batch Molecular Weight: 398.96

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM
ethanol to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.4% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.24	6.69	7.02
Found	69.57	6.53	7.01

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

Product Information

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Description:

High affinity and selective EP_2 receptor antagonist (K_B values are 2.4 and 34.5 nM for EP_2 and DP_1 receptors respectively). Exhibits >500-fold selectivity for EP_2 over other prostanoid receptors. Inhibits butaprost-induced proinflammatory cytokine production, cell proliferation and invasion of PC-3 cells in vitro.

Physical and Chemical Properties:

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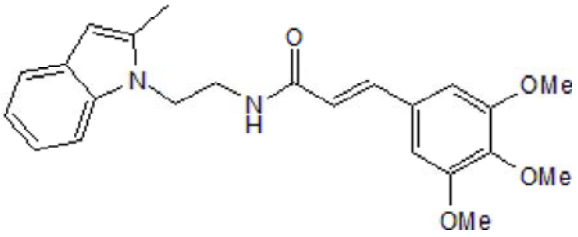
Physical Appearance: Off White solid

Minimum Purity: >98%

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.

References:

Jiang and Dingledine (2013) Role of prostaglandin receptor EP_2 in the regulations of cancer cell proliferation, invasion, and inflammation. J.Pharmacol.Exp.Ther. ***344*** 360. PMID: 23192657.

Quan *et al* (2013) EP_2 receptor signaling pathways regulate classical activation of microglia. J.Biol.Chem. ***288*** 9293. PMID: 23404506.