Print Date: Aug 16th 2019

Certificate of Analysis

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Product Name: **AC 264613** **Catalog No.: 3370** **Batch No.: 1**

CAS Number: 1051487-82-1

IUPAC Name: (±)-(3*R**,4*S**)-2-Oxo-4-phenyl-3-pyrollidinecarboxylic acid 2-[1-(3-bromophenyl)ethylidene]hydrazide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{18}BrN_3O_2$

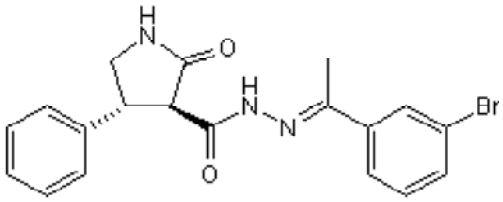
Batch Molecular Weight: 400.27

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.57 (Chloroform:Methanol [9:1])

HPLC: Shows 98.1% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.01	4.53	10.5
Found	56.9	4.5	10.39

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:

Potent and selective protease-activated receptor 2 (PAR_2) agonist (pEC_{50} = 7.5). Displays no activity at other PAR subtypes and exhibits no significant activity at over 30 other receptors implicated in nociception and inflammation. Stimulates PI hydrolysis, Ca^{2+} mobilization and cellular proliferation in vitro (pEC_{50} values are 6.9, 7.0 and 7.5 respectively).

Physical and Chemical Properties:

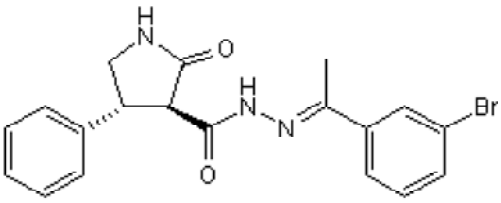
Batch Molecular Formula: $C_{19}H_{18}BrN_3O_2$

Batch Molecular Weight: 400.27

Physical Appearance: White 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. 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:

Gardell *et al* (2008) Identification and characterization of novel small-molecule protease-activated receptor 2 agonists. J.Pharmacol.Exp.Ther. ***327*** 799. PMID: 18768780.

Seitzberg *et al* (2008) Discovery of potent and selective small-molecule PAR-2 agonists. J.Med.Chem. ***51*** 5490. PMID: 18720984.