TOCRIS a biotechne brand

Certificate of Analysis

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Product Name: AC 55541

Catalog No.: 3369 Batch No.: 2

CAS Number: IUPAC Name:

Storage:

916170-19-9

 $(2\textit{E})-2-[1-(3-Bromophenyl)ethylidene] \ \alpha-(benzoylamino)-3,4-dihydro-4-oxo-1-phthalazineacetic acid hydrazide) \ \alpha-(benzoylamino)-3,4-dihydro-4-$

1. PHYSICAL AND CHEMICAL PROPERTIES

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

Batch Molecular Structure:

 $C_{25}H_{20}BrN_5O_3.1/4H_2O$ 522.86 White solid DMSO to 50 mM Store at -20°C

Br 0 0

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 96.6% purity Consistent with structure Consistent with structure

	Carbon Hydrogen Nitrogen			
Theoretical	57.43	3.95	13.39	
Found	57.44	3.74	13.47	

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

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Batch No.: 2

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Product Name: AC 55541

CAS Number: 916170-19-9

(2E)-2-[1-(3-Bromophenyl)ethylidene] α-(benzoylamino)-3,4-dihydro-4-oxo-1-phthalazineacetic acid hydrazide

Description:

IUPAC Name:

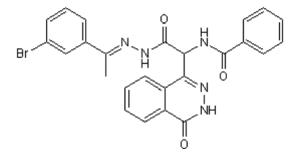
AC 55541 is a potent and selective protease-activated receptor 2 (PAR₂) agonist (pEC₅₀ = 6.7) that displays no activity at other PAR subtypes or at over 30 other receptors involved in nociception and inflammation. Stimulates cell proliferation, PI hydrolysis and Ca²⁺ mobilization in vitro (pEC₅₀ values are 6.7, 5.9 and 6.6 respectively) and exhibits pronociceptive activity in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{25}H_{20}BrN_5O_3$.¹/₄ H_2O Batch Molecular Weight: 522.86 Physical Appearance: White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Catalog No.: 3369

Solubility & Usage Info:

DMSO to 50 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.

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