

Product Name: ONO AE3 208

Catalog No.: 3565

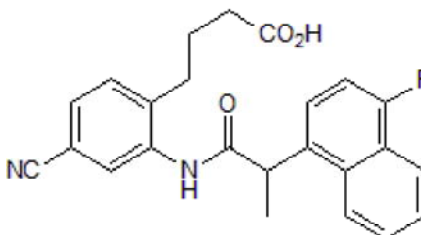
Batch No.: 3

CAS Number: 402473-54-5

IUPAC Name: 4-Cyano-2-[[2-(4-fluoro-1-naphthalenyl)-1-oxopropyl]amino]benzenebutanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₁FN₂O₃·¼H₂O
Batch Molecular Weight: 408.93
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 1eq. NaOH to 10 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.49	5.3	6.85
Found	70.37	5.24	6.81

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

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IUPAC Name: 4-Cyano-2-[[2-(4-fluoro-1-naphthalenyl)-1-oxopropyl]amino]benzenebutanoic acid

Description:

High affinity and selective EP₄ receptor antagonist (K_i values are 1.3, 30, 790 and 2400 nM for EP₄, EP₃, EP and TP receptors respectively). Displays no affinity for EP₁, EP₂, DP or IP receptors (K_i >10 μM). Inhibits PGE₂-induced IL-8 production in colonic epithelial caco-2 cells and attenuates PGE₂ inhibition of natural killer T cell activation. Suppresses recovery from experimentally-induced colitis and stimulates CD4⁺ T cell proliferation in C57BL/6 mice. Also reduces metastasis of mammary tumor cells in a murine model of breast cancer. Orally active. Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:

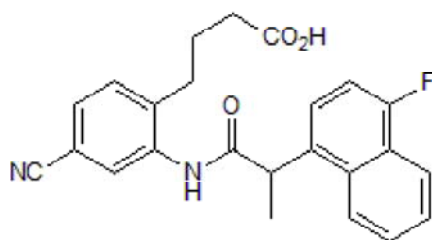
Batch Molecular Formula: C₂₄H₂₁FN₂O₃·¼H₂O

Batch Molecular Weight: 408.93

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Deng et al (2013) Exosome-like nanoparticles from intestinal mucosal cells carry prostaglandin E2 and suppress activation of liver NKT cells. *J.Immunol.* **190** 3579. PMID: 23467936.

Dey et al (2009) Prostaglandin E₂ couples through EP₄ prostanoid receptors to induce IL-8 production in human colonic epithelial cell lines. *Br.J.Pharmacol* **3** 475. PMID: 19175605.

Ma et al (2006) Prostaglandin E receptor EP₄ antagonism inhibits breast cancer metastasis. *Cancer Res.* **66** 2923. PMID: 16540639.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

1eq. NaOH to 10 mM with gentle warming

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.

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