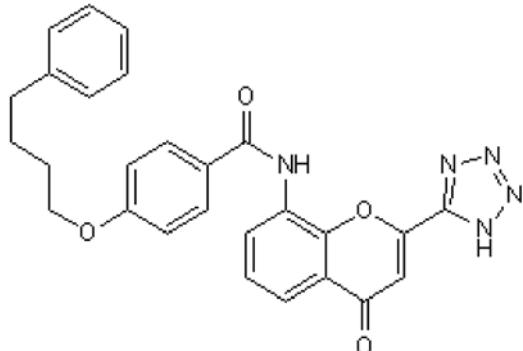


Certificate of Analysiswww.tocris.com**Product Name:** ONO 1078**Catalog No.:** 3026**Batch No.:** 1

CAS Number: 103177-37-3

IUPAC Name: *N*-[4-Oxo-2-(1*H*-tetrazol-5-yl)-4*H*-1-benzopyran-8-yl]-4(4-phenylbutoxy)benzamide**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₂₇H₂₃N₅O₄.½H₂O**Batch Molecular Weight:** 490.51**Physical Appearance:** White solid**Solubility:** DMSO to 50 mM**Storage:** Store at +4°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 66.11 4.93 14.28

Found 66.05 4.94 14.36

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

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Product Information

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Product Name: ONO 1078

Catalog No.: 3026

Batch No.: 1

CAS Number: 103177-37-3

IUPAC Name: *N*-[4-Oxo-2-(1*H*-tetrazol-5-yl)-4*H*-1-benzopyran-8-yl]-4(4-phenylbutoxy)benzamide

Description:

Selective cysteinyl leukotriene receptor 1 (CysLT₁) antagonist (IC₅₀ values are ~ 4 - 7 and 3620 nM for CysLT₁ and CysLT₂ respectively). Inhibits contraction of airway smooth muscle, microvascular leakage into airways and eosinophil infiltration. Can decrease symptoms of bronchial asthma. Also TREK2 activator (pEC₅₀ = 5.8); exhibits selectivity for TREK-2 over other K_{2P} channels.

Physical and Chemical Properties:

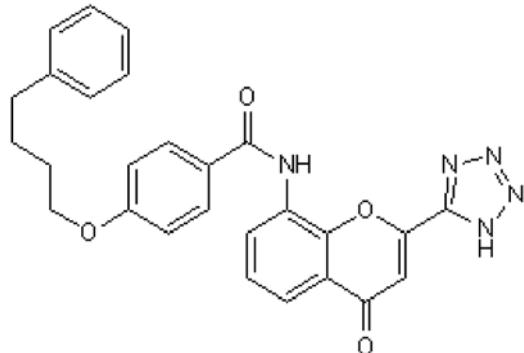
Batch Molecular Formula: C₂₇H₂₃N₅O₄.½H₂O

Batch Molecular Weight: 490.51

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Suzuki et al (2003) Inhibition of human eosinophil activation by a cysteinyl leukotriene receptor antagonist (Pranlukast; ONO-1078). *J.Asthma* **40** 395. PMID: 12870835.

Heise et al (2000) Characterization of the human cysteinyl leukotriene 2 receptor. *J.Biol.Chem.* **275** 30531. PMID: 10851239.

Lynch et al (1999) Characterization of the human leukotriene CysLT1 receptor. *Nature* **399** 789. PMID: 10391245.

Storage: Store at +4°C

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.

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