

**Product Name:** TFC 007

**Catalog No.:** 5108

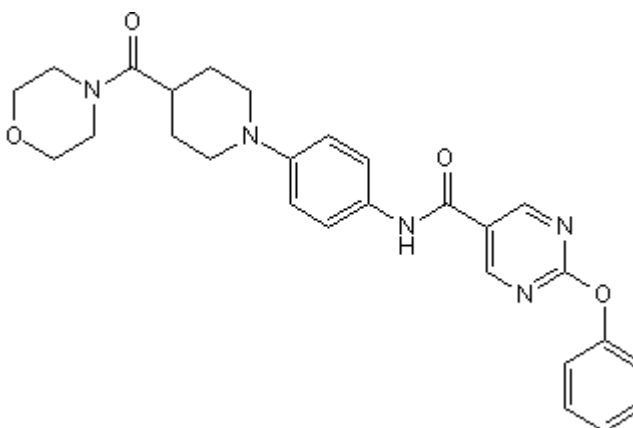
**Batch No.:** 1

CAS Number: 927878-49-7

IUPAC Name: *N*-[4-[4-(4-Morpholinylcarbonyl)-1-piperidinyl]phenyl]-2-phenoxy-5-pyrimidinecarboxamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>27</sub>H<sub>29</sub>N<sub>5</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 487.55  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.21 (Chloroform:Methanol:Ammonia soln. [95:5:0.1])  
**HPLC:** Shows 99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.51	6	14.36
Found	66.61	5.99	14.34

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**Description:**

Potent hematopoietic prostaglandin D synthase (H-PGDS) inhibitor ( $IC_{50} = 83$  nM). Inhibits  $PGD_2$  production and late phase nasal blockage in an animal model of allergic rhinitis. Exhibits negligible effects on COX-1, COX-2, 5-LOX,  $LTC_4$  synthase,  $TXA_2$  synthase and microsomal prostaglandin  $E_2$  synthase.

**Physical and Chemical Properties:**

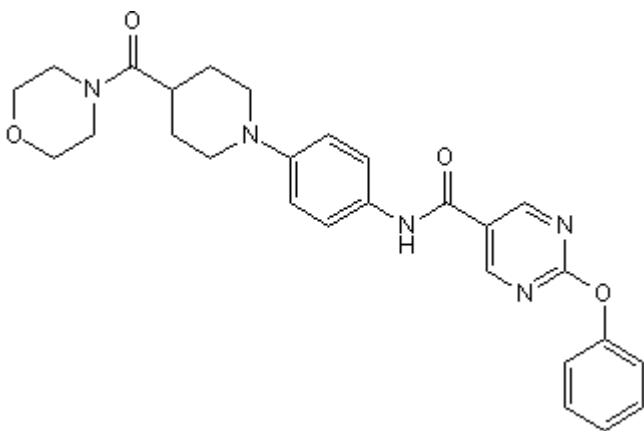
Batch Molecular Formula:  $C_{27}H_{29}N_5O_4$

Batch Molecular Weight: 487.55

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at  $-20^{\circ}C$

**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  $45-60^{\circ}C$  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  $-20^{\circ}C$  or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Nabe et al** (2011) Inhibition of hematopoietic prostaglandin D synthase improves allergic nasal blockage in guinea pigs. *Prostaglandins Other Lipid Mediat.* **95** 27. PMID: 21601002.

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