

**Product Name:** UNC 2881

**Catalog No.:** 6537

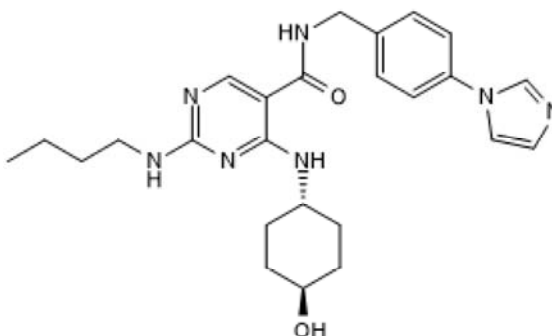
**Batch No.:** 1

CAS Number: 1493764-08-1

IUPAC Name: 2-(Butylamino)-4-[(trans-4-hydroxycyclohexyl)amino]-N-[[4-(1*H*-imidazol-1-yl)phenyl]methyl]-5-pyrimidinecarboxamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>25</sub>H<sub>33</sub>N<sub>7</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 463.58  
**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  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	64.77	7.18	21.15
Found	64.53	7.16	21.1

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

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**Description:**

Potent Mer kinase inhibitor. Displays over 55-fold selectivity for Mer kinase over other TAM receptor tyrosine kinase family members (IC<sub>50</sub> values are 4.3 nM, 0.36 μM and 0.25 μM for Mer, Alk and Tyro3, respectively). Inhibits Mer phosphorylation in vitro. Also inhibits platelet aggregation in response to Type I collagen.

**Physical and Chemical Properties:**

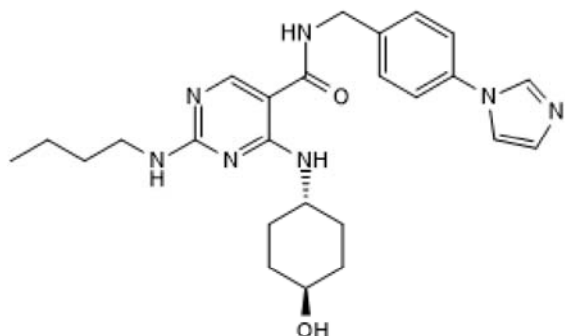
Batch Molecular Formula: C<sub>25</sub>H<sub>33</sub>N<sub>7</sub>O<sub>2</sub>

Batch Molecular Weight: 463.58

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**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.

**References:**

Zhang *et al* (2013) Discovery of Mer specific tyrosine kinase inhibitors for the treatment and prevention of thrombosis. *J.Med.Chem.* **56** 9693. PMID: 24219778.

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