

Product Name: PF 3716556

Catalog No.: 4191

Batch No.: 1

CAS Number: 928774-43-0

IUPAC Name: 8-[[[(4*R*)-3,4-Dihydro-5-methyl-2*H*-1-benzopyran-4-yl]amino]-*N*-(2-hydroxyethyl)-*N*,2-dimethyl-imidazo[1,2-*a*]pyridine-6-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₆N₄O₃·½H₂O

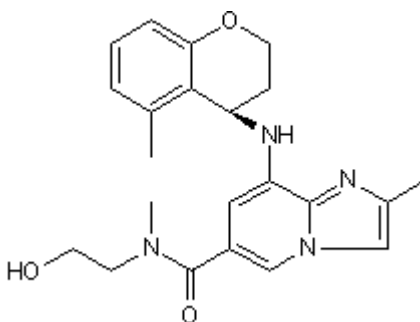
Batch Molecular Weight: 403.48

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.49	6.74	13.89
Found	65.42	6.54	13.8

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

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Description:

H⁺,K⁺-ATPase inhibitor (pIC₅₀ = 6 in human recombinant ion-leaky assays); more potent in acidic conditions. Highly selective for H⁺,K⁺-ATPase in vitro; displays no activity at Na⁺,K⁺-ATPase. Also displays selectivity for H⁺,K⁺-ATPase over a range of 50 receptors and ion channels (IC₅₀ > 10 μM). Inhibits gastric acid secretion in rat and dog models.

Physical and Chemical Properties:

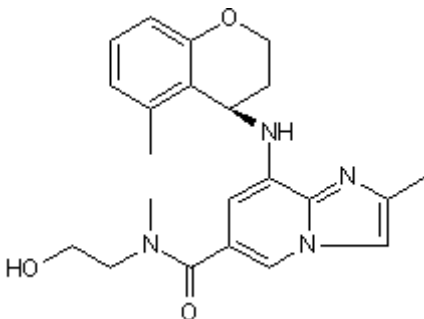
Batch Molecular Formula: C₂₂H₂₆N₄O₃·½H₂O

Batch Molecular Weight: 403.48

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Mori *et al* (2009) *N*-(2-hydroxyethyl)-*N*,2-dimethyl-8-[[[(4*R*)-5-methyl-3,4-dihydro-2*H*-chromen-4-yl]amino]imidazo[1,2-*a*]pyridine-6-carboxamide (PF-03716556), a novel, potent, and selective acid pump antagonist for the treatment of gastroesophageal reflux disease. *J.Pharmacol.Exp.Ther.* **328** 671. PMID: 18981288.

Storage: Store at -20°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°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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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956