

Certificate of Analysis

Print Date: Jan 15th 2016

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Product Name: RS 25344 hydrochloride Catalog No.: 3315 Batch No.: 1

CAS Number: 152815-28-6

IUPAC Name: 1-(3-Nitrophenyl)-3-(4-pyridinylmethyl)-pyrido[2,3-d]pyrimidine-2,3-(1H,3H)-dione hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{13}N_5O_4.HCl.\frac{1}{4}H_2O$

Batch Molecular Weight:416.3Physical Appearance:White solidSolubility:water to 50

water to 50 mM DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.75$ (Dichloromethane:Methanol [9:1])

HPLC: Shows >99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 54.82 3.51 16.82 Found 54.96 3.25 16.66



Product Information

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Description:

Potent and selective phosphodiesterase (PDE) 4 inhibitor (IC50 values are 0.28, > 100, 160 and 330 nM at PDE4, PDE1, PDE2 and PDE3 respectively). Inhibits eosinophil chemotaxis and increases progressive motility of spermatozoa in vitro.

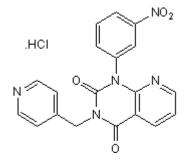
Physical and Chemical Properties:

Batch Molecular Formula: $C_{19}H_{13}N_5O_4$.HCl. $\frac{1}{4}H_2O$

Batch Molecular Weight: 416.3 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 50 mM 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.

References:

Alvarez et al (1995) Activation and selective inhibition of a cyclic AMP-specific phosphodiesterase, PDE-4D3. Mol. Pharmacol. 48 616. PMID: 7476886.

Kaneko et al (1995) Elevated intracellular cyclic AMP inhibits chemotaxis in human eosinophils. Cell.Signal. 7527. PMID: 8562314. Baipai et al (2006) AKAP3 selectively binds PDE4A isoforms in boyine spermatozoa. Biol.Reprod. 74 109. PMID: 16177223.

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