

Product Name: Ro 32-0432 hydrochloride

Catalog No.: 1587

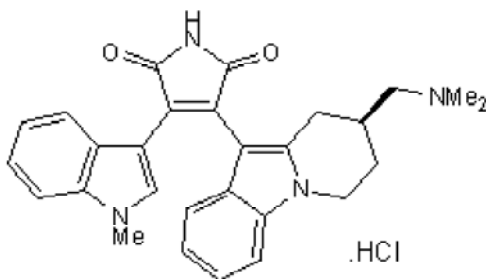
Batch No.: 1

CAS Number: 1781828-85-0

IUPAC Name: 3-[(8S)-8-[(Dimethylamino)methyl]-6,7,8,9-tetrahydropyrido[1,2-a]indol-10-yl]-4-(1-methyl-1H-indol-3-yl)-1H-pyrrole-2,5-dione hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₈ H ₂₈ N ₄ O ₂ .HCl
Batch Molecular Weight:	489.01
Physical Appearance:	Orange solid
Solubility:	DMSO to 10 mM with gentle warming
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.35 (Dichloromethane:Methanol [9:1])
HPLC:	Shows 98.9% purity
Chiral HPLC:	Shows 99.7% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Optical Rotation:	[α] _D = +25 (Concentration = 1, Solvent = DMSO)
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	68.77	5.98	11.45
Found	68.66	6.01	11.27

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

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Description:

Selective cell-permeable protein kinase C inhibitor. Displays slight selectivity for conventional PKC isoforms over Ca²⁺ and atypical PKC isoforms; binding affinities for rat isoforms are 9, 28, 31, 37 and 108 nM for PKC's α , β I, β II, γ and ϵ respectively. Orally available and prevents T cell chronic inflammation in vivo.

Physical and Chemical Properties:

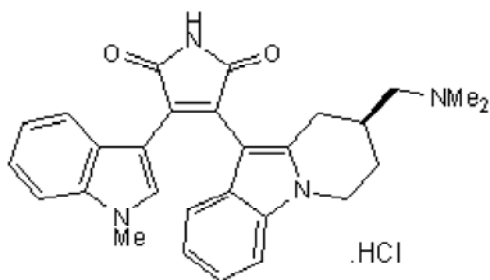
Batch Molecular Formula: C₂₈H₂₈N₄O₂.HCl

Batch Molecular Weight: 489.01

Physical Appearance: Orange solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 mM with gentle warming

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Birchall et al (1994) Ro 32-0432, a selective and orally active inhibitor of protein kinase C prevents T-cell activation. *J.Pharmacol.Exp.Ther.* **268** 922. PMID: 8114006.

Wilkinson et al (1993) Isoenzyme specificity of bisindolylmaleimides, selective inhibitors of protein kinase C. *Biochem.J.* **294** 335. PMID: 8373348.

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