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Certificate of Analysis

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Product Name: Lestaurtinib

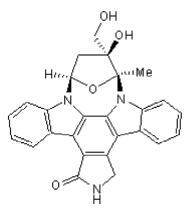
Catalog No.: 3395 Batch No.: 3

CAS Number: **IUPAC Name:** 111358-88-4

(9S,10S,12R)-2,3,9,10,11,12-Hexahydro-10-hydroxy-10-(hydroxymethyl)-9-methyl-9,12-epoxy-1H-diindolo[1,2,3fg:3',2',1'-kl]pyrrolo[3,4-i][1,6]benzodiazocin-1-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: **Batch Molecular Structure:** C₂₆H₂₁N₃O₄.H₂O 457.48 Off-white lyophilised solid DMSO to 20 mg/ml Store at -20°C



2. ANALYTICAL DATA

HPLC: ¹H NMR: Microanalysis:

Shows 99.7% purity Consistent with structure

	Carbon Hydrogen Nitrogen				
Theoretical	68.26	5.07	9.19		
Found	68.55	5.13	9.24		

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

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Description:

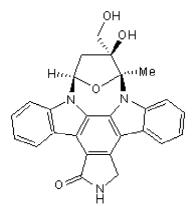
Lestaurtinib is a potent JAK2, FLT3 and TrkA inhibitor (IC₅₀ values are 0.9, 3 and < 25 nM, respectively). Also inhibits Aurora kinase A and B (IC₅₀ values are 8.1 and 2.3 nM, respectively) and prevents STAT5 phosphorylation (IC₅₀ = 20 - 30 nM). Exhibits antiproliferative activity in vitro (IC₅₀ = 30 - 100 nM in HEL92.1.7 cells) and is effective against myeloproliferative disorders in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₆H₂₁N₃O₄.H₂O Batch Molecular Weight: 457.48 Physical Appearance: Off-white lyophilised solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mg/ml

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.

Catalog No.: 3395

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Hexner *et al* (2008) Lestaurinib (CEP701) is a JAK2 inhibitor that suppresses JAK2/STAT5 signaling and the proliferation of primary erythroid cells from patients with myeloproliferative disorders. Blood **111** 5663. PMID: 17984313.

Weisel *et al* (2007) Effect of FLT3 inhibition on normal hematopoietic progenitor cells. Ann.N.Y.Acad.Sci. **1106** 190. PMID: 17442779. **Miknyoczki** *et al* (1999) The novel Trk receptor tyrosine kinase inhibitor CEP-701 (KT-5555) exhibits antitumor efficacy against human pancreatic carcinoma (Panc1) xenograft growth and *in vivo* invasiveness. Ann.N.Y.Acad.Sci. **880** 252. PMID: 10415871.

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