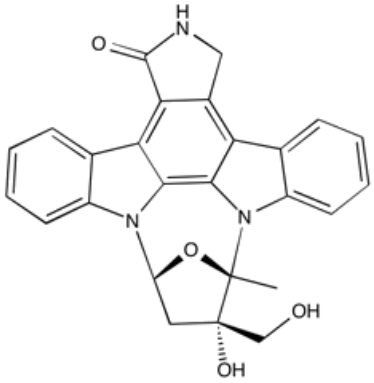
Catalog # 10-2149

Lestaurtinib

CAS# 111358-88-4

CEP-701; KT-5555

Lot # S101096



Potent and selective FLT3 inhibitor (IC_{50}= 2 nM).[1,2] Inhibits RET and RET phosphorylation in medullary thyroid carcinoma cells.[3] Suppresses JAK2/STAT5 signaling and the proliferation of primary erythroid cells from patients with myeloproliferative disorders.[4] Potent Trk inhibitor.[5] Cell permeable.

1) Levis *et al*. (2003), *Novel FLT3 tyrosine kinase inhibitors*; Expert Opin. Investig. Drugs, **12** 1951

2) Chen *et al*. (2005), *FLT3/ITD Mutation Signaling Includes Suppression of SHP-1*; J. Biol. Chem., **280** 5361

3) Strock *et al*. (2003), *CEP-701 and CEP-751 Inhibit Constitutively Activated RET Tyrosine Kinase Activity and Block Medullary Thyroid Carcinoma Cell Growth*; Cancer Res., **63** 5559

4) Hexner *et al*. (2008), *Lestaurtinib (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

5) Ruggeri *et al*. (1999), *Role of neurotrophin-trk interactions in oncology: the anti-tumor efficacy of potent and selective trk tyrosine kinase inhibitors in pre-clinical tumor models*; Curr. Med. Chem., **6** 845

PHYSICAL DATA

Molecular Weight:	439.46
Molecular Formula:	$C_{26}H_{21}N_3O_4$
Purity:	98% by TLC NMR: (Conforms)
Solubility:	DMSO (up to 100 mg/ml), or Ethanol (up to 20 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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