## Luxeptinib

Cat. No.:	HY-139535			
CAS No.:	1616428-23-9			
Molecular Formula:	$C_{25}H_{17}F_{4}N_{5}O_{2}$			
Molecular Weight:	495.43			
Target:	FLT3; Btk; Apoptosis			
Pathway:	Protein Tyrosine Kinase/RTK; Apoptosis			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

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## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.0184 mL	10.0922 mL	20.1845 mL		
		5 mM	0.4037 mL	2.0184 mL	4.0369 mL		
		10 mM	0.2018 mL	1.0092 mL	2.0184 mL		
	Please refer to the sc	lubility information to select the ap	propriate solvent.				
Si 2. Ai Si 3. Ai		1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.05 mM); Suspended solution; Need ultrasonic					
		2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.20 mM); Clear solution					
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.20 mM); Clear solution					

BIOLOGICAL ACTIVITY				
Description	Luxeptinib (CG-806) is an orally active, reversible, first-in-class, non-covalent and potent pan-FLT3/pan-BTK inhibitor. Luxeptinib induces cell cycle arrest, apoptosis or autophagy in acute myeloid leukemia cells <sup>[1][2][3][4]</sup> .			
IC <sub>50</sub> & Target	Pan-FLT3/Pan-BTK <sup>[1]</sup>			
In Vitro	Luxeptinib (MEC-1 CLL cells; 0.1~10 μM; 72 hours) inhibits cells proliferation with an IC <sub>50</sub> of 32 nM <sup>[1]</sup> . Luxeptinib inhibits BCR signaling-induced phosphorylation of BTK, PLCg2, AKT, ERK1/2, S6 ribosomal protein and strongly			

## Product Data Sheet

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hour) completely inhibit	orylation in primary chronic lymphocytic leukemia (CLL) cells <sup>[1]</sup> . Luxeptinib (MV4-11 cells; 500 pl ts phosphorylation of FLT3 and STAT5 <sup>[2]</sup> . ntly confirmed the accuracy of these methods. They are for reference only. 1]
Cell Line:	MEC-1 CLL cells
Concentration:	0.1~10 μM
Incubation Time:	72 hours
Result:	Inhibited cells proliferation with an IC <sub>50</sub> of 32 nM.

## REFERENCES

[1]. Ekaterina Kim MS, et al. CG-806, a First-in-Class Pan-FLT3/Pan-BTK Inhibitor, Exhibits Broad Signaling Inhibition in Chronic Lymphocytic Leukemia Cells. bloodjournal Blood blood (2019). 134 (Supplement\_1) : 3051.

[2]. Abstract 44: CG'806, a first-in-class FLT3/BTK inhibitor, exhibits potent activity against AML patient samples with mutant or wild type FLT3, as well as other hematologic malignancy subtypes

[3]. Guopan Yu, et al.CG '806, a Novel Pan-FLT3/BTK Multi-Kinase Inhibitor, Induces Cell Cycle Arrest, Apoptosis or Autophagy in AML Cells Depending on FLT3 Mutation Status. Blood blood (2017).130 (Suppl\_1): 462

[4]. Aptose Biosciences to Present CG'806 Data at AACR Hematologic Malignancies Meeting

Caution: Product has not been fully validated for medical applications. For research use only.

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