Radotinib

Cat. No.:	HY-15728			
CAS No.:	926037-48-	1		
Molecular Formula:	C ₂₇ H ₂₁ F ₃ N ₈ C)		
Molecular Weight:	530.5			
Target:	Bcr-Abl			
Pathway:	Protein Tyrosine Kinase/RTK			
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

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	1.8850 mL	9.4251 mL	18.8501 mL	
		5 mM	0.3770 mL	1.8850 mL	3.7700 mL	
		10 mM	0.1885 mL	0.9425 mL	1.8850 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.			
In Vivo		t one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline mg/mL (1.17 mM); Clear solution				
	one by one: 10% DMSO >> 90% cor ng/mL (1.17 mM); Clear solution	n oil				

BIOLOGICAL ACTIVITY

Description	Radotinib(IY-5511) is a novel and selective BCR-ABL1 tyrosine kinase inhibitor with IC50 of 34 nM for wild-type BCR-ABL1
Description	
	kinase.IC50 value: 34 nM [1]Target: BCR-ABL1 inhibitorRadotinib is a BCR-ABL1 specific 2nd-generation tyrosine kinase
	inhibitor. According to recently conducted in vitro kinase assays, the IC50 value for radotinib against wild-type BCR-ABL1
	kinase was 34 nM, which is relatively lower compared with the IC50 levels of c-kit (1,324 nM), PDGFR (PDGFR α , 75.5 nM;
	PDGFRβ, 130 nM) and src (>2,000 nM). Also, radotinib effectively inhibited the proliferation of common mutant clones of
	BCR-ABL1, with the exception of T315I. In an off-target kinase assay to assess safety, DDR, EPHB, LYN, and PDGFR kinases
	were inhibited below the 180 nM level.

REFERENCES

[1]. Kim SH, et al. Efficacy and safety of radotinib in chronic phase chronic myeloid leukemia patients with resistance or intolerance to BCR-ABL1 tyrosine kinase inhibitors. Haematologica. 2014 Jul;99(7):1191-6.

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

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