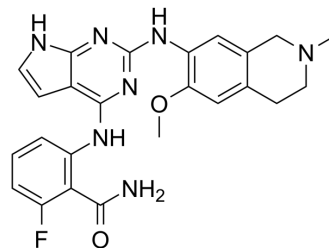


IGF-1R inhibitor-2

Cat. No.:	HY-145110		
CAS No.:	1116236-15-7		
Molecular Formula:	C ₂₄ H ₂₄ FN ₇ O ₂		
Molecular Weight:	461.49		
Target:	IGF-1R		
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



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (108.34 mM; ultrasonic and warming and heat to 80°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1669 mL	10.8345 mL	21.6689 mL
		5 mM	0.4334 mL	2.1669 mL	4.3338 mL
10 mM		0.2167 mL	1.0834 mL	2.1669 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.42 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	IGF-1R inhibitor-2 (example 121) is an insulin-like growth factor-1 receptor (IGF-1R) inhibitor. Downregulation of IGF-1R can reverse the transformed phenotype of tumor cells and potentially render them susceptible to apoptosis ^[1] .
IC ₅₀ & Target	IGF-1R

REFERENCES

[1]. Stanley Dawes Chamberlain, et al. IR receptor tyrosine kinase and ALK kinase for treating cancer. WO2009020990 A1.

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

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