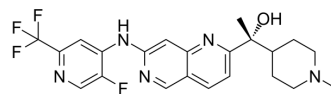


GFB-12811

Cat. No.:	HY-144117		
CAS No.:	2775311-17-4		
Molecular Formula:	C ₂₂ H ₂₃ F ₄ N ₅ O		
Molecular Weight:	449.44		
Target:	CDK		
Pathway:	Cell Cycle/DNA Damage		
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 (111.25 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2250 mL	11.1250 mL	22.2499 mL
	5 mM	0.4450 mL	2.2250 mL	4.4500 mL
	10 mM	0.2225 mL	1.1125 mL	2.2250 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

GFB-12811 is a high selective and orally active CDK5 inhibitor with an IC₅₀ of 2.3 nM. GFB-12811 is highly selective over the other tested kinases (CDK1/2/6/7/9)^[1].

IC₅₀ & Target

Cdk5/p25 2.3 nM (IC ₅₀)	CDK2/CycA 211 nM (IC ₅₀)	CDK7/Cyclin H/MAT1 718 nM (IC ₅₀)	CDK9/CycT1 894 nM (IC ₅₀)
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REFERENCES

[1]. Daniels MH, et al. Discovery and Optimization of Highly Selective Inhibitors of CDK5. J Med Chem. 2022;65(4):3575-3596.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite F, Monmouth Junction, NJ 08852, USA