PERK-IN-2

Cat. No.:	HY-135220		
CAS No.:	1337531-83	-5	
Molecular Formula:	C ₂₃ H ₁₈ F ₃ N ₅ O		
Molecular Weight:	437.42		
Target:	PERK		
Pathway:	Cell Cycle/D	NA Dam	age
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	Mass Solvent Concentration	1 mg	5 mg	10 mg		
		1 mM	2.2861 mL	11.4307 mL	22.8613 mL		
		5 mM	0.4572 mL	2.2861 mL	4.5723 mL		
		10 mM	0.2286 mL	1.1431 mL	2.2861 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (2.29 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1 mg/mL (2.29 mM); Clear solution					
		Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (2.29 mM); Clear solution					

BIOLOGICAL ACTIV	ТТҮ
Description	PERK-IN-2 is a potent PERK inhibitor with an IC_{50} of 0.2 nM ^[1] .
IC ₅₀ & Target	IC50: 0.2 nM (PERK) ^[1]
In Vitro	PERK-IN-2 (0.03-0.3 μM; 2 hours) inhibits PERK autophosphorylation in A459 cells with IC ₅₀ value ranging from 0.03–0.1 μM ^[1] MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Product Data Sheet

NH₂

Cell Viability Assay ^[1]	
Cell Line:	A459 cells
Concentration:	0.03 μΜ, 0.1 μΜ, 0.3 μΜ
Incubation Time:	2 hours
Result:	Inhibited PERK autophosphorylation in A459 cells.

REFERENCES

[1]. Axten JM, et al. Discovery of 7-methyl-5-(1-{[3-(trifluoromethyl)phenyl]acetyl}-2,3-dihydro-1H-indol-5-yl)-7H-pyrrolo[2,3-d]pyrimidin-4-amine (GSK2606414), a potent and selective first-in-class inhibitor of protein kinase R (PKR)-like endoplasmic reticul

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

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