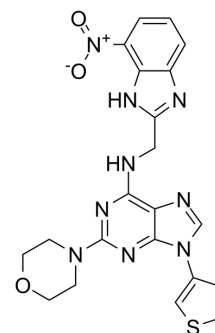


SR-1277

Cat. No.:	HY-108907
CAS No.:	1446715-47-4
Molecular Formula:	C ₂₁ H ₁₉ N ₉ O ₃ S
Molecular Weight:	477.5
Target:	Casein Kinase
Pathway:	Cell Cycle/DNA Damage; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SR-1277 is a potent, selective and ATP competitive CK1δ/ε inhibitor, with IC ₅₀ s of 49 nM and 260 nM, respectively. SR-1277 also inhibits FLT3, CDK4/cyclin D1, CDK6/cyclin D3 and CDK9/cyclin K, with IC ₅₀ s of 305 nM, 1340 nM, 311 nM and 109 nM, respectively. SR-1277 can be used for the research of cancer ^[1] .	
IC₅₀ & Target	CK1δ 49 nM (IC ₅₀)	CK1ε 260 nM (IC ₅₀)
In Vitro	SR-1277 exhibits antiproliferative effects in A375 cells, with an EC ₅₀ of 22 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	SR-1277 (1 mg/kg; i.v.) exhibits C _{max} (1.2 μM), Cl (2.8 ml/min/kg), AUC(1.26 μM•h), T _{1/2} (1.42 h) and brain penetration (24%) in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Bibian M, et, al. Development of highly selective casein kinase 1δ/1ε (CK1δ/ε) inhibitors with potent antiproliferative properties. Bioorg Med Chem Lett. 2013 Aug 1;23(15):4374-80.

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

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