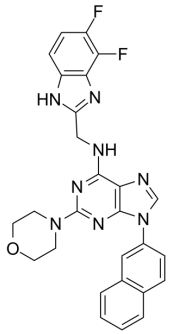
SR-4133

Cat. No.:	HY-149292
CAS No.:	2999645-23-5
Molecular Formula:	$C_{27}H_{22}F_2N_8O$
Molecular Weight:	512.51
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-4133 is a potent and highly CK1ε selective inhibitor with an IC_{50} of 58 nM. SR-4133 binds to the ATP-binding site of CK1ε. SR-4133 displays nanomolar growth inhibition of bladder cancer cells, and inhibits the phosphorylation of 4E-BP1[1].

IC_{50} & Target	CK1ε	CK1δ
	58 nM (IC_{50})	10 μM (IC_{50})

In Vitro

SR-4133 (200-600 nM, 72 h) inhibits cancer cells growth significantly with EC_{50}s of 265 nM (T24), 314 nM (5637), 540 nM (UM-UC-3 EC), 373 nM (U2-OS EC)[1].

SR-4133 (1 μM, 24 h) inhibits the phosphorylation of 4E-BP1 in T24 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	T24, 5637, UM-UC-3, U2-OS
Concentration:	265 nM, 314 nM, 540 nM, 373 nM
Incubation Time:	72 h
Result:	Inhibited cell growth with EC_{50}s of 265 nM (T24), 314 nM (5637), 540 nM (UM-UC-3 EC), 373 nM (U2-OS EC).

Western Blot Analysis[1]

Cell Line:	T24
Concentration:	1 μM
Incubation Time:	24 h
Result:	Blocked the phosphorylation of T37/46, S65, and T70 of 4E-BP1.

REFERENCES

[1]. Choi JY, et al. Structure-Based Development of Isoform-Selective Inhibitors of Casein Kinase 1ε vs Casein Kinase 1δ. J Med Chem. 2023 Jun 8;66(11):7162-7178.

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