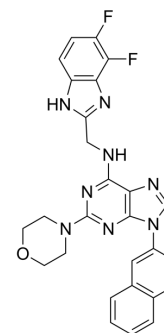


SR-4133

Cat. No.:	HY-149292
Molecular Formula:	C ₂₇ H ₂₂ F ₂ N ₈ O
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] .																	
IC₅₀ & Target	CK1ε 58 nM (IC ₅₀)	CK1δ 10 μM (IC ₅₀)																
In Vitro	<p>SR-4133 (200-600 nM, 72 h) inhibits cancer cells growth significantly with EC₅₀s of 265 nM (T24), 314 nM (5637), 540 nM (UM-UC-3 EC), 373 nM (U2-OS EC)^[1].</p> <p>SR-4133 (1 μM, 24 h) inhibits the phosphorylation of 4E-BP1 in T24 cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>T24, 5637, UM-UC-3, U2-OS</td> </tr> <tr> <td>Concentration:</td> <td>265 nM, 314 nM, 540 nM, 373 nM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell growth with EC₅₀s of 265 nM (T24), 314 nM (5637), 540 nM (UM-UC-3 EC), 373 nM (U2-OS EC).</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>T24</td> </tr> <tr> <td>Concentration:</td> <td>1 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Blocked the phosphorylation of T37/46, S65, and T70 of 4E-BP1.</td> </tr> </table>		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).	Cell Line:	T24	Concentration:	1 μM	Incubation Time:	24 h	Result:	Blocked the phosphorylation of T37/46, S65, and T70 of 4E-BP1.
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Result:	Blocked the phosphorylation of T37/46, S65, and T70 of 4E-BP1.																	

REFERENCES

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

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