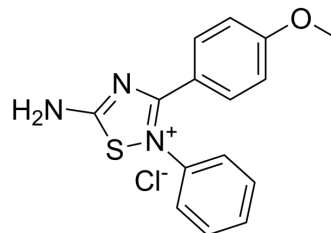


SR31527 chloride

Cat. No.:	HY-118961
CAS No.:	311814-78-5
Molecular Formula:	C ₁₅ H ₁₄ ClN ₃ OS
Molecular Weight:	319.81
Target:	Kinesin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SR31527 chloride is a potent KIFC1 inhibitor with an IC ₅₀ value of 6.6 μM. SR31527 chloride decreases cell viability and colony formation ^[1] .								
IC₅₀ & Target	IC ₅₀ : 6.6 μM (KIFC1) ^[1]								
In Vitro	<p>SR31527 chloride binds to KIFC1 with a K_d value of 25.4 nM^[1].</p> <p>SR31527 chloride (50 μM; 24 h) induces multiple spindle formation in MDA-MB-231, BT549 and MDA-MB-435s cells^[1].</p> <p>SR31527 chloride (0-100 μM; 96 h, 10-12 days) decreases the cell viability and colony formation of breast cancer cells and is less cytotoxic to LL47 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>MDA-MB-231, BT549, MDA-MB-435s cells</td> </tr> <tr> <td>Concentration:</td> <td>0-100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>96 h</td> </tr> <tr> <td>Result:</td> <td>Decreased cell viability with IC₅₀s of 29, 33, 20 μM for MDA-MB-231, BT549, MDA-MB-435s cells, respectively.</td> </tr> </table>	Cell Line:	MDA-MB-231, BT549, MDA-MB-435s cells	Concentration:	0-100 μM	Incubation Time:	96 h	Result:	Decreased cell viability with IC ₅₀ s of 29, 33, 20 μM for MDA-MB-231, BT549, MDA-MB-435s cells, respectively.
Cell Line:	MDA-MB-231, BT549, MDA-MB-435s cells								
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Incubation Time:	96 h								
Result:	Decreased cell viability with IC ₅₀ s of 29, 33, 20 μM for MDA-MB-231, BT549, MDA-MB-435s cells, respectively.								

REFERENCES

[1]. Zhang W, et al. Discovery of a novel inhibitor of kinesin-like protein KIFC1. *Biochem J.* 2016 Apr 15;473(8):1027-35.

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

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