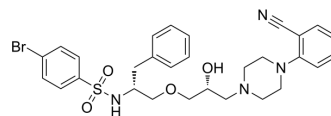


Cathepsin L/S-IN-1

Cat. No.:	HY-152204
Molecular Formula:	C ₂₉ H ₃₃ BrN ₄ O ₄ S
Molecular Weight:	613.57
Target:	Cathepsin
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cathepsin L/S-IN-1 is a dual inhibitor of Cathepsin L and Cathepsin S with IC ₅₀ s of 4.10 μM and 1.79 μM, respectively. Cathepsin L/S-IN-1 shows a significant antimetastatic and invasive effects on pancreatic cancer BxPC-3 and PANC-1 cells ^[1] .									
IC₅₀ & Target	cathepsin L 4.10 μM (IC ₅₀)	cathepsin S 1.79 μM (IC ₅₀)								
In Vitro	<p>Cathepsin L/S-IN-1 (compound B1a) (0-25 μM; 48 h) shows noncytotoxic against pancreatic cancer BxPC-3 and PANC-1 cells [1].</p> <p>Cathepsin L/S-IN-1 (0-25 μM; 48 h) inhibits Cathepsin L and S activities without decreasing the mRNA level of them^[1].</p> <p>Cathepsin L/S-IN-1 (0-25 μM; 48 h) inhibits the migration and invasion of pancreatic cancer BxPC-3 and PANC-1 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>BxPC-3 and PANC-1 cells</td> </tr> <tr> <td>Concentration:</td> <td>0, 6.25, 12.5, and 25 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 hours</td> </tr> <tr> <td>Result:</td> <td>Failed to suppress the viability of pancreatic cancer cells.</td> </tr> </table>		Cell Line:	BxPC-3 and PANC-1 cells	Concentration:	0, 6.25, 12.5, and 25 μM	Incubation Time:	48 hours	Result:	Failed to suppress the viability of pancreatic cancer cells.
Cell Line:	BxPC-3 and PANC-1 cells									
Concentration:	0, 6.25, 12.5, and 25 μM									
Incubation Time:	48 hours									
Result:	Failed to suppress the viability of pancreatic cancer cells.									

REFERENCES

[1]. Huang H, et al. Design and synthesis of dual cathepsin L and S inhibitors and antimetastatic activity evaluation in pancreatic cancer cells. *Bioorg Med Chem Lett*. 2022 Nov 23;80:129087.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA