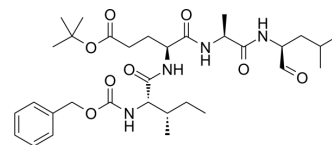


PSI

Cat. No.:	HY-P1258
CAS No.:	158442-41-2
Molecular Formula:	C ₃₂ H ₅₀ N ₄ O ₈
Molecular Weight:	618.76
Target:	Proteasome
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	PSI (Proteasome Inhibitor 1) is a potent proteasome inhibitor. PSI inhibits the proliferation of primary effusion lymphoma (PEL) cells. PSI has the potential for the research of Kaposi's sarcoma-associated herpesvirus (KSHV) infection and KSHV-associated lymphomas ^[1] .																
In Vitro	<p>PSI (24 h) inhibits the proliferation of primary effusion lymphoma (PEL) cells at low nanomolar concentrations (CC₅₀s of 205, 190, 22.0, 53.0 nM FOR BJAB, Ramos, BC3, BCBL1 cells, respectively)^[1].</p> <p>PSI (50 nM; 6 h) increases caspase-3/7 activity by 8-fold compared with control^[1].</p> <p>PSI (50 nM; 6 h) decreases the transcriptional activity of NF-κB by 52%^[1].</p> <p>PSI (1, 5 nM; 3 days) inhibits the growth of BC3 cells at a high concentration (5 nM)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>BC3, BCBL1, Ramos, BJAB cells</td> </tr> <tr> <td>Concentration:</td> <td></td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited the proliferation of primary effusion lymphoma (PEL) cells at low nanomolar concentrations (CC₅₀s of 205, 190, 22.0, 53.0 nM FOR BJAB, Ramos, BC3, BCBL1 cells, respectively).</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HBL6 cells</td> </tr> <tr> <td>Concentration:</td> <td>50 nM</td> </tr> <tr> <td>Incubation Time:</td> <td>6 h</td> </tr> <tr> <td>Result:</td> <td>Decreased the NF-κB activity by 52%.</td> </tr> </table>	Cell Line:	BC3, BCBL1, Ramos, BJAB cells	Concentration:		Incubation Time:	24 h	Result:	Inhibited the proliferation of primary effusion lymphoma (PEL) cells at low nanomolar concentrations (CC ₅₀ s of 205, 190, 22.0, 53.0 nM FOR BJAB, Ramos, BC3, BCBL1 cells, respectively).	Cell Line:	HBL6 cells	Concentration:	50 nM	Incubation Time:	6 h	Result:	Decreased the NF-κB activity by 52%.
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REFERENCES

[1]. Saji C, et al. Proteasome inhibitors induce apoptosis and reduce viral replication in primary effusion lymphoma cells. *Biochem Biophys Res Commun.* 2011; 415(4):573-8.

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

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