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Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand

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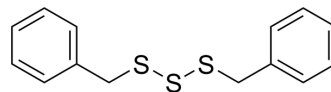
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Dibenzyl trisulfide

Cat. No.:	HY-129461
CAS No.:	6493-73-8
Molecular Formula:	C ₁₄ H ₁₄ S ₃
Molecular Weight:	278.46
Target:	Cathepsin
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dibenzyl trisulfide (DTS) is an active ingredient that can be isolated from <i>Petiveria alliacea</i> L.. Dibenzyl trisulfide inhibits cell proliferation and migration. Dibenzyl trisulfide decreased the mRNA and protein expression of BAK-1 and LTA. Dibenzyl trisulfide induces lysosomal membrane permeabilization and cathepsin B release ^[1] .																				
In Vitro	<p>Dibenzyl trisulfide (0.1-50 μM; 2 weeks) inhibits CRL-2335 cell proliferation and migration^[1].</p> <p>Dibenzyl trisulfide (10, 50 μM; 48 h) decreased the mRNA and protein expression of BAK-1 and LTA in a dose-dependent manner^[1].</p> <p>Dibenzyl trisulfide (10 μM; 48 h) induces lysosomal membrane permeabilization and cathepsin B release in CRL-2335 cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>CRL-2335 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.1, 0.5, 1, 10, 50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>2 weeks</td> </tr> <tr> <td>Result:</td> <td>Inhibited proliferation and migration of CRL-2335 cell in a dose-dependent manner.</td> </tr> </table> <p>RT-PCR^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>CRL-2335 cells</td> </tr> <tr> <td>Concentration:</td> <td>0, 10, 50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Decreased the mRNA expression of BAK-1, GADD45a, and LTA in a dose-dependent manner.</td> </tr> </table> <p>Immunofluorescence^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>CRL-2335 cells</td> </tr> <tr> <td>Concentration:</td> <td>0, 10, 50 μM</td> </tr> </table>	Cell Line:	CRL-2335 cells	Concentration:	0.1, 0.5, 1, 10, 50 μM	Incubation Time:	2 weeks	Result:	Inhibited proliferation and migration of CRL-2335 cell in a dose-dependent manner.	Cell Line:	CRL-2335 cells	Concentration:	0, 10, 50 μM	Incubation Time:	48 h	Result:	Decreased the mRNA expression of BAK-1, GADD45a, and LTA in a dose-dependent manner.	Cell Line:	CRL-2335 cells	Concentration:	0, 10, 50 μM
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Incubation Time:	48 h
Result:	Decreased the protein expression of BAK-1 and LTA but not GADD45a.

REFERENCES

[1]. Williams LA, et al. Implications of dibenzyl trisulphide for disease treatment based on its mode of action. West Indian Med J. 2009 Nov;58(5):407-9.

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

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