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Zuschläge

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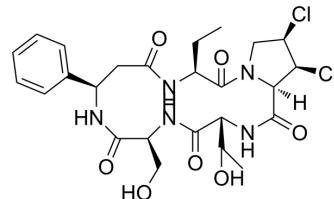
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Astin B

Cat. No.:	HY-P3148
CAS No.:	151201-76-2
Molecular Formula:	C ₂₅ H ₃₃ Cl ₂ N ₅ O ₇
Molecular Weight:	586.46
Target:	Apoptosis; Autophagy; Reactive Oxygen Species; JNK; Bcl-2 Family; Caspase; p62; Atg8/LC3
Pathway:	Apoptosis; Autophagy; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; MAPK/ERK Pathway
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Astin B is a orally active and potent cyclic pentapeptide, that can be isolated from Aster tataricus. Astin B has hepatotoxic effects in vitro and in vivo and that hepatic injury was primarily mediated by apoptosis in a mitochondria/caspase-dependent manner. Astin B induces autophagy in L-02 cells, increases LC3-II and decreases p62 expression ^[1] .																			
IC ₅₀ & Target	Bcl-2	Bax	Caspase-3	Caspase-9																
In Vitro	Astin B (0-60 μM, 12-48 h) inhabits proliferation of L-02 cells ^[1] . Astin B (0-60 μM, 24 h) induces oxidative stress and mitochondrial dysfunction, regulates Bcl-2/Bax expression and increases caspase-3 and -9 activity ^[1] . Astin B (0-60 μM, 24 h) induces autophagy in L-02 cells to protect from apoptosis ^[1] . Astin B provokes oxidative stress-associated inflammation in hepatocytes as evidenced by increased levels of reactive oxygen species (ROS), reduced contents of intracellular glutathione (GSH), and enhanced phosphorylation of c-Jun N-terminal kinase (JNK) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.																			
In Vivo	Astin B (10 mg/kg, Orally, once daily for 7 consecutive days) induces liver injury in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.																			
	<table border="1"> <tr> <td>Animal Model:</td> <td colspan="3">Male ICR mice (6–8 weeks of age, 10 per group)^[1]</td> </tr> <tr> <td>Dosage:</td> <td colspan="3">10 mg/kg</td> </tr> <tr> <td>Administration:</td> <td colspan="3">Orally administered, once daily for 7 consecutive days</td> </tr> <tr> <td>Result:</td> <td colspan="3">Induced liver injury in mice. Compared to the control group, the serum levels of ALT and AST in mice treated with astin B were elevated about 11.9 and 2.26 times, respectively.</td> </tr> </table>				Animal Model:	Male ICR mice (6–8 weeks of age, 10 per group) ^[1]			Dosage:	10 mg/kg			Administration:	Orally administered, once daily for 7 consecutive days			Result:	Induced liver injury in mice. Compared to the control group, the serum levels of ALT and AST in mice treated with astin B were elevated about 11.9 and 2.26 times, respectively.		
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REFERENCES

- [1]. Wang L, et al. Astin B, a cyclic pentapeptide from Aster tataricus, induces apoptosis and autophagy in human hepatic L-02 cells. Chem Biol Interact. 2014 Nov 5;223:1-9.

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

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