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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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Echistatin

Cat. No.:	HY-P1189
CAS No.:	154303-05-6
Molecular Formula:	$C_{217}H_{341}N_{71}O_{74}S_9$
Molecular Weight:	5417
Sequence:	Glu-Cys-Glu-Ser-Gly-Pro-Cys-Cys-Arg-Asn-Cys-Lys-Phe-Leu-Lys-Glu-Gly-Thr-Ile-Cys-Lys-Arg-Ala-Arg-Gly-Asp-Asp-Met-Asp-Asp-Tyr-Cys-Asn-Gly-Lys-Thr-Cys-Asp-Cys-Pro-Arg-Asn-Pro-His-Lys-Gly-Pro-Ala-Thr (Disulfide bridge:Cys2-Cys11;Cys7-Cys32;Cys8-Cys37;Cys20-Cys39)
Sequence Shortening:	ECESGPCCRNCKFLKEGTICKRARGDDMDDYCNGKTCDCPRNPHKGPAT (Disulfide bridge: Cys2-Cys11;Cys7-Cys32;Cys8-Cys37;Cys20-Cys39)
Target:	Integrin
Pathway:	Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Echistatin, the smallest active RGD protein belonging to the family of disintegrins that are derived from snake venoms, is a potent inhibitor of platelet aggregation. Echistatin is a potent inhibitor of bone resorption in culture. Echistatin is a potent antagonist of $\alpha_{IIb}\beta_3$, $\alpha_v\beta_3$ and $\alpha_5\beta_1$ [1][2][3][4].		
IC ₅₀ & Target	$\alpha_v\beta_3$	$\alpha_5\beta_1$	$\alpha_{IIb}\beta_3$

REFERENCES

- [1]. J Musial, et al. Inhibition of platelet adhesion to surfaces of extracorporeal circuits by disintegrins. RGD-containing peptides from viper venoms. Circulation. 1990 Jul;82(1):261-73.
- [2]. M Sato, et al. Echistatin is a potent inhibitor of bone resorption in culture. J Cell Biol. 1990 Oct;111(4):1713-23.
- [3]. C C Kumar, et al. Biochemical characterization of the binding of echistatin to integrin $\alpha_v\beta_3$ receptor. J Pharmacol Exp Ther. 1997 Nov;283(2):843-53.
- [4]. I Wierzbicka-Patynowski, et al. Structural requirements of echistatin for the recognition of $\alpha(v)\beta(3)$ and $\alpha(5)\beta(1)$ integrins. J Biol Chem. 1999 Dec 31;274(53):37809-14.

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

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