



LKT Laboratories, Inc.

Helodermin

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Product Information

Product ID H1643

CAS No. 89468-62-2

Chemical Name

Synonym Exendin 2

Formula C₁₇₆H₂₈₃N₄₅O₅₁

Formula Wt. 3845.49

Melting Point

Purity ≥95%

Solubility

H-His-Ser-Asp-Ala-Ile-Phe-Thr-
Glu-Glu-Tyr-Ser-Lys-Leu-Leu-
Ala-Lys-Leu-Ala-Leu-Gln-Lys-
Tyr-Leu-Ala-Ser-Ile-Leu-Gly-Ser-
Arg-Thr-Ser-Pro-Pro-Pro-NH₂

Product ID	Size
H1643	0.5 mg
H1643	1 mg
H1643	2.5 mg

Store Temp -20° C

Ship Temp Ambient

Description Helodermin is a peptide originally found in *Heloderma* lizards. Helodermin exhibits vasodilatory and antihypertensive activities, decreasing blood pressure in vivo; this arterial relaxation is accompanied by a decrease in intracellular Ca²⁺ and an increase in cAMP. Helodermin may also exhibit anticancer benefit, inhibiting cell proliferation of small cell lung cancer (SCLC) cells in vitro.

References Uddman R, Goadsby PJ, Jansen-Olesen I, et al. Helospectin-like peptides: immunochemical localization and effects on isolated cerebral arteries and on local cerebral blood flow in the cat. *J Cereb Blood Flow Metab.* 1999 Jan;19(1):61-7. PMID: 9886356.

Tanaka Y, Horikawa N, Ishiro H, et al. Glibenclamide-sensitive mechanism is involved in helodermin-produced vasodilatation in rat mesenteric artery. *Res Commun Mol Pathol Pharmacol.* 1997 Nov;98(2):141-56. PMID: 9467823.

Maruno K, Said SI. Small-cell lung carcinoma: inhibition of proliferation by vasoactive intestinal peptide and helodermin and enhancement of inhibition by anti-bombesin antibody. *Life Sci.* 1993;52(24):PL267-71. PMID: 8389407.

Grundemar L, Högestätt ED. Vascular effects of helodermin, helospectin I and helospectin II: a comparison with vasoactive intestinal peptide (VIP). *Br J Pharmacol.* 1990 Mar;99(3):526-8. PMID: 2331581.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.