

Elafin

Product Code: 1214-001

Innopep Peptide Product

Price: \$210.00

Short Description

AQEPVKGPVSTKPGSCPIILIRCAMLNPPNRCLKDTDCPGIKKCCGSCGMACFVPQ (Disulfide bonds between Cys16- Cys45, Cys23- Cys49, Cys32- Cys44, Cys38-Cys53)

Description

Overview

Description

This is a fragment of the elafin (elastase-specific inhibitor), an antiproteinase and antimicrobial (gram-positive and gram-negative respiratory pathogens) molecule that is expressed at epithelial sites. Elafin is a potent inhibitor of HNE and proteinase 3 produced in the skin, and in the airways , which is up-regulated in response to early inflammatory cytokines such as TNF and IL-1. Elafin, along with SLPI, also shares characteristics with antimicrobial defensin-like molecules in being a low molecular weight cationic peptide with the ability to eliminate pulmonary pathogens.

Sequence

AQEPVKGPVSTKPGSCPIILIRCAMLNPPNRCLKDTDCPGIKKCCGSCGMACFVPQ (Disulfide bonds between Cys16- Cys45, Cys23- Cys49, Cys32- Cys44, Cys38-Cys53)

Sequence (3 Letter)

H-Ala-Gln-Glu-Pro-Val-Lys-Gly-Pro-Val-Ser-Thr-Lys-Pro-Gly-Ser-Cys-Pro-Ile-Ile-Leu-Ile-Arg-Cys-Ala-Met-Leu-As

n-Pro-Pro-Asn-Arg-Cys-Leu-Lys-Asp-Thr-Asp-Cys-Pro-Gly-Ile-Lys-Lys-Cys-Cys-Glu-Gly-Ser-Cys-Gly-Met-Ala-Cys-Phe-Val-Pro-Gln-OH (Disulfide bonds bet
5999.3

Molecular Weight

Properties

Purity

> 95% By HPLC

Storage

Store at -20 °C, cap vial tightly at all times.

References

King, A. et al. *J. Clin. Endo. Metab.* **88**, 4426 (2003); Wiedow, O. et al . *J. Biol. Chem.* **265**, 14791 (1990); Wiedow, O. et al. *Biochem. Biophys. Res. Commun.* **174**, 6 (1991); Tremblay, G. et al. *Am. J. Respir. Crit. Care Med.* **154**, 1092 (1996); Simpson, AJ. et al. *J. Immunol.* **167**, 1778 (2001).