



Product Data Sheet

Product Name:	Elafin	
Catalog Number:	AS-61641 (0.1 mg)	Lot Number: See label on vial
Sequence:	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-Asn-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 between Cys16-Cys45, Cys23-Cys49, Cys32-Cys44, Cys38-Cys53) (3-letter code) AQEPVKGPVSTKPGSCPIILIRCAMLNPPNRCLKDTCPGIKKCEGSC GMACFVPQ (Disulfide bonds between Cys16- Cys45, Cys23- Cys49, Cys32- Cys44, Cys38-Cys53) (1-letter code)	
Molecular Weight:	5999.3	
Peptide Purity:	>95%	
Appearance:	Lyophilized white powder	
Peptide Reconstitution:	Elafin peptide is freely soluble in water.	

Storage: PAR-2 peptide is shipped at ambient temperature. Upon receipt, store lyophilized peptide at -20°C or lower. Reconstituted peptide can be aliquoted and stored at -20°C or lower.

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. Ref: 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).

Related Products:

Name	Cat #	Size
MeOSuc-Ala-Ala-Pro-Val-AFC	AS-24141	10 mg
MeOSuc-AAPV-AFC		

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