

Product Data Sheet

Cat# SP-89204-5
Description: Interleukin IL-8 Inhibitor (AA: Ac-Arg-Arg-Trp-Trp-Cys-Arg- NH₂) (MW: 1003.20)
Size: 5 mg
Purity: >98.03%
Form: Powder
Store: Desiccated at -20°C.

Interleukins are a group of cytokines synthesized by helper CD4 T lymphocytes and monocytes. Interleukins regulate cell growth, differentiation, and motility. They are particularly important in stimulating immune responses, such as inflammation.

Interleukin 8 (IL-8) is a chemokine produced by macrophages and other cell types such as epithelial cells, airway smooth muscle cells and endothelial cells. In humans, the interleukin-8 protein is encoded by the IL8 gene. IL-8, also known as neutrophil chemotactic factor, induces chemotaxis in target cells and also induces phagocytosis once they have arrived. IL-8 is also known to be a potent promoter of angiogenesis. Interleukin-8 has been cited as a proinflammatory mediator in gingivitis and psoriasis. Secretion is increased by oxidant stress, which thereby causes the recruitment of inflammatory cells induces a further increase in oxidant stress mediators, making it a key parameter in localized inflammation.

Inhibitors of IL8 binding to its receptors interact with the amino-terminal extracellular domain of the IL8 receptor and compete with IL8 for receptor-binding. The inhibitors are useful modulators of IL8 receptor-mediated biological activity.

SP-89204-5 is a peptide acetylated on the amino terminus and amidated on the carboxyl terminus, inhibits the specific binding of 125I-IL-8 to neutrophils. IL-8 is a member of the chemokine alpha subfamily that activates neutrophils and is chemotactic for these cells. IL-8 Inhibitor also suppresses the binding of macrophage inflammatory protein 2 (MIP 2) beta to neutrophils

All peptides are for in vitro research use only.

Related items

Catalog# ProdDescription

AR-243-UInterleukin-32 (AC3-3), RNA Aptamer, unlabeled

SP-101823-5 Interleukin-1 β Convertase Substrate (AA: Asn-Glu-Ala-Tyr-Val-His-Asp-Ala-Pro-Val-Arg-Ser-Leu-Asn) (MW: 1584.71)

SP-55383-1 Interleukin-6 Receptor (partial) [H-Thr-Ser-Leu-Pro-Val-Gln-Asp-Ser-Ser-Ser-Val-Pro-OH; MW: 1216.32]

SP-64217-1 Interleukin IL-1b (208-240) (human) (AA: Lys-Lys-Lys-Met-Glu-Lys-Arg-Phe-Val-Phe-Asn-Lys-Ile-Glu-Ile-Asn-Asn-Lys-Leu-Glu-Phe-Glu-Ser-Ala-Gln-Phe-Pro-Asn-Trp-Tyr-Ile-Ser-Thr) (MW: 4108.81)

SP-88517-5 Interleukin II (60-70) (AA: Leu-Thr-Phe-Lys-Phe-Tyr-Met-Pro-Lys-Lys-Ala) (MW: 1373.74)

SP-89151-5 Interleukin IL-1 Receptor Peptide (human) (AA: Lys-Ile-Cys-Ile-Arg-Ile-Gln-Ile-Ser) (MW: 1073.37)

SP-89152-1 Interleukin IL-8ra (9-29) (AA: Ac-Met-Trp-Asp-Phe-Asp-Asp-Leu-Asn-Phe-Thr-Gly-Met-Pro-Pro-Ala-Asp-Glu-Asp-Tyr-Ser-Pro-NH₂) (MW: 2504.71)

SP-89158-1 Interleukin IL-1a (223-250) (human) (AA: Phe-Phe-Tyr-Glu-Thr-His-Gly-Thr-Lys-Asn-Tyr-Phe-Thr-Ser-Val-Ala-His-Pro-Asn-Leu-Phe-Ile-Ala-Thr-Lys-Gln-Asp-Tyr) (MW: 3340.73)

SP-89159-1 Interleukin IL-1b (178-207) (human) (AA: Leu-Lys-Glu-Lys-Asn-Leu-Tyr-Leu-Ser-Cys-Val-Leu-Lys-Asp-Asp-Lys-Pro-Thr-Leu-Gln-Leu-Glu-Ser-Val-Asp-Pro-Lys-Asn-Tyr-Pro) (MW: 3492.07)

SP-89161-1 Interleukin IL-6 (88-121) (human) (AA: Ile-Ile-Thr-Gly-Leu-Leu-Glu-Phe-Glu-Val-Tyr-Leu-Glu-Tyr-Leu-Gln-Asn-Arg-Phe-Glu-Ser-Ser-Glu-Glu-Gln-Ala-Arg-Ala-Val-Gln-Met-Ser-Thr-Lys) (MW: 4023.57)

SP-89203-5 Interleukin IL-8 (-5 to +5) (AA: Ala-Val-Leu-Pro-Arg-Ser-Ala-Lys-Glu-Leu)(MW: 1083.31)

SP-89204-5 Interleukin IL-8 Inhibitor (AA: Ac-Arg-Arg-Trp-Trp-Cys-Arg- NH₂) (MW: 1003.20)

References: Gayle et al., *J. Biol. Chem.* (1993) 268:7283-7289; Baggiolini et al., (1992) *Fed. of Euro. Biochem. Soc.*, 307:97-101; Wolff B, et al. (1998) *J. Exp. Med.* **188** (9): 1757-62; Haake et al. (2002) *Clinical Periodontology*, 9th Edition. 2002. page 162.

SP-89204-5 130701P

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