

Recombinant Human Epithelial Neutrophil Activating Peptide-78, 5-78 aa/CXCL5 (Human ENA-78, 5-78 aa/CXCL5)

Product Information

Product Name	Cat#	Size
Recombinant Human Epithelial Neutrophil Activating Peptide-78, 5-78	90908ES08	5 µg
aa/CXCL5 (Human ENA-78, 5-78 aa/CXCL5)	90908ES60	100 µg

Product Description

CXCL5, also known as epithelial cell-derived neutrophil-activating peptide (ENA-78), is an 8 kDa proinflammatory member of the CXC chemokine family. Its Glu-Leu-Arg (ELR) motif confers angiogenic properties and distinguishes it from ELR-CXC chemokines which are angiostatic. CXCL5 is produced following stimulation of cells with the inflammatory cytokines interleukin-1 or tumor necrosis factor-alpha. It also can be detected in eosinophils, and can be inhibited with the type II interferon. In vivo, CXCL5 is elevated at sites of inflammation and pulmonary fibrosis where it promotes neutrophil infiltration and activation as well as angiogenesis. Its up-regulation contributes to increased vascularization, tumor growth, and metastasis in many cancers. CXCL5 plays a role in reducing sensitivity to sunburn pain in some subjects, and is a potential target which can be utilized to understand more about pain in other inflammatory conditions like arthritis and cystitis. It elicits these effects by interacting with the cell surface chemokine receptor CXCR2.

Product Properties

Synonyms	ENA-78 (5-78), CXCL5 (5-78), Neutrophil Activating Peptide ENA-78, Small-inducible cytokine B5
Accession	P42830
GeneID	6374
Source	E.coli-derived Human ENA-78, 5-78 aa/CXCL5, Ala41-Asn114.
Molecular Weight	Approximately 8.1 kDa.
AA Sequence	AAVLRELRCV CLQTTQGVHP KMISNLQVFA IGPQCSKVEV VASLKNKKEI CLDPEAPFLK KVIQKILDGG NKEN
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 97% by SDS-PAGE and HPLC analyses.
Biological Activity	The biological activity determined by a chemotaxis bioassay using human peripheral blood neutrophils is in a concentration of 10.0-100.0 ng/mL. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.