

# Recombinant Human CXCL5

Catalog # FL079

## Product Specifications

Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Purity	> 97% by SDS-PAGE or HPLC.
Endotoxin	< 0.1 EU/μg of r HuENA-78/CXCL5 protein as determined by LAL method.
Expression System	Expressed in E. coli.
Species	Human
Tag	Tag free.
Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood neutrophils is in a concentration of 10.0-100.0 ng/ml.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, with 100 mM NaCl, pH 7.4.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a 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.
Accession #	XP_004038864 Ala41-Asn114
Amino acid sequence	AAVLRELRCVCLQTTQGVHPKMISNLQVFAIGPQCSKVEVVASLKNKGEICLDPEAPFLKKVIQKILDGGNKEN
Molecular weight	Approximately 8.1 kDa, a single non-glycosylated polypeptide chain containing 74 amino acids.
Synonyms	ENA-78 (5-78), CXCL5 (5-78), Neutrophil Activating Peptide ENA-78, Small-inducible cytokine B5
Stability & Storage	Shipped on wet ice. For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 36 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.
Precautions	Recombinant Human CXCL5 is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

CXCL5 is a small cytokine also known as epithelial-derived neutrophil-activating peptide 78 (ENA-78). The protein is produced following stimulation of cells with the inflammatory cytokine interleukin-1 or tumor necrosis factor-α. In vitro, ENA-78 (8-78) and ENA-78 (9-78) show a threefold higher chemotactic activity for neutrophil granulocytes. They are produced by proteolytic cleavage after secretion from peripheral blood monocytes. Recombinant human CXCL5 (5-78 a.a.) contains 74 amino acids and it is a single non-glycosylated polypeptide chain. Human CXCL5 shares 57% amino acid sequence identity with mouse and rat CXCL5. Recombinant Human ENA-78/CXCL5 is an 8.1kDa protein containing 74 amino acid residues.

