

CXCL5 Protein, Human, Recombinant (aa 37-114)

General Information

Synonyms:	ENA78;SCYB5;Epithelial-derived neutrophil-activating protein 78;ENA-78(1-78);C-X-C motif chemokine 5;CXCL5;Small-inducible cytokine B5
Protein Construction:	Ala37-Asn114
Species:	Human
Expression Host:	E. coli
Accession:	P42830
Molecular Weight:	8.3 kDa (Predicted)
AA Sequence:	AGPAAAVLRE LRCVCLQTTQ GVHPKMISNL QVFAIGPQCS KVEVVASLKN GKEICLDPEA PFLKKVIQKI LDGGNKEN

QC Testing

Biological 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 5.0-10.0 ng/ml.
Purity:	> 97% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 7.4, 500 mM NaCl.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water or aqueous buffer containing 0.1 % BSA. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CXCL5 is a member of the CXC chemokine family and also known as epithelial-derived neutrophil-activating peptide 78 (ENA-78). It is produced following stimulation of cells with the inflammatory cytokines interleukin-1 or tumor necrosis factor-alpha. 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 (1-78 a.a.) contains 78 amino acids which is a single non-glycosylated polypeptide chain. Human CXCL5 shares 57 % amino acid sequence identity with mouse and rat CXCL5.

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