

Epithelial Neutrophil-Activating Protein 78 Human Recombinant

Item Number	rAP-0132
Synonyms	Small inducible cytokine B5, CXCL5, Epithelial-derived neutrophil-activating protein 78, Neutrophil-activating peptide ENA-78, ENA-78(1-78), chemokine (C-X-C motif) ligand 5, SCYB5.
Description	Epithelial Neutrophil-Activating Protein 78 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 74 amino acids and having a molecular mass of 8020 Dalton. The CXCL5 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P42830
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be, Ala- Ala -Val-Leu-Arg.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized ENA78 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL5 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	The CXCL5 was lyophilized from a concentrated (1mg/ml) solution in water containing no additives. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized ENA-78 in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The biological activity was determined by measuring the dose dependent mobilization of intracellular calcium (calcium flux) with human neutrophils. Significant calcium mobilization is observed with 100ng/mL (corresponding to a Specific Activity of 10,000I
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**