

Recombinant Human Epithelial neutrophil-activating protein 78 (CXCL5)

Certificate of Analysis and Data Sheet

➤ Source: E.Coli	➤ Catalog No. CHM-331
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➤ **Description :**

Recombinant Human ENA-78 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 74 amino acids and having a molecular mass of 8020 Dalton.

Recombinant Human ENA-78 is purified by proprietary chromatographic techniques.

➤ **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

➤ **Formulation:**

Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.

➤ **Solubility:**

It is recommended to reconstitute the lyophilized ENA-78 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

➤ **Stability:**

Lyophilized ENA-78 although stable at room temperature for 3 weeks, should be stored desiccated below -18⁰C. Upon reconstitution ENA-78 should be stored at 4⁰C between 2-7 days and for future use below -18⁰C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please avoid freeze-thaw cycles.

➤ **Purity:**

Greater than 98.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Anion-exchange FPLC.

(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained.

➤ **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. .

➤ **Dimers and aggregates:**

Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

➤ **Biological Activity:**

This Recombinant Human ENA-78 is fully biologically active when compared to standard. The Activity is calculated by the ability to chemoattract Human peripheral blood neutrophils using a concentration of 5-10 ng/ml.

➤ **Endotoxin:**

Less than 0.1 ng/μg (IEU/μg) of Recombinant Human Epithelial neutrophil-activating protein 78

➤ **Protein content:**

Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280 nm .
2. Analysis by RP-HPLC, using a calibrated solution of ENA-78 as a Reference Standard.

➤ **Usage:**

This material is offered for research, laboratory or further manufacturing purposes.