

Product: Interleukin-5, human, recombinant
Catalog #: 11-IL-5H
Amount: 5 µg

DESCRIPTION: Recombinant human Interleukin 5 (rHuIL-5)
rHuIL-5 is a dimeric, non-glycosylated polypeptide chain containing 132 amino acids and having a molecular mass of 26,522.84 Dalton.
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ile-Pro-Thr-Glu

SOURCE: *Escherichia coli* expression system

MOLECULAR WEIGHT: 15 kDa

PURITY: > 98%, as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC
(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel

ENDOTOXIN: Less than 0.1 ng/µg (IEU/µg) of rHuIL-5

DIMERS & AGGREGATES: Less than 1% as determined by silver stained SDS-PAGE gel analysis

PROTEIN CONTENT: Protein quantitation was carried out by 2 independent methods:
- UV spectroscopy at 280 nm using the absorbency value of 0.625 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENcomputer analysis program of protein sequences
- Analysis by RP-HPLC, using a standard solution of IL-5 as a Reference Standard

FORM: Purified, in 0.1% BSA

CONCENTRATION: 0.1 mg/ml

STORAGE: -20°C (aliquot), avoid freezing and thawing cycles

BIOLOGICAL ACTIVITY: rHuIL-5 is fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of the proliferation of TF-1 cells was found to be < 0.15ng/ml, corresponding to a Specific Activity of 6 x 10⁶ IU/mg.

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