

Product: GRO/KC (CXCL1), Rat, Recombinant
Catalog #: 11-KC-R
Amount: 5 µg

DESCRIPTION: Recombinant Rat KC also known as N51 and GRO-1 produced in E.Coli is a non-glycosylated, Polypeptide chain containing 72 amino acids and having a molecular mass of 7849 Dalton.
The rrKC is purified by proprietary chromatographic techniques. The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Pro-Val-Ala-Asn.

SOURCE: *Escherichia coli* expression system

MOLECULAR WEIGHT: 7.8 kDa

PURITY: > 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 gel.

ENDOTOXIN: Less than 0.1 ng/µg (IEU/µg) of rrKC

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

PROTEIN CONTENT: Protein quantitation was carried out by two independent methods:
1. UV spectroscopy at 280 nm using the absorbency value of 1.06 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a standard solution of KC as a Reference Standard

FORM: Purified.

CONCENTRATION: 0.1 mg/ml

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

BIOLOGICAL ACTIVITY: rrKC is fully biologically active when compared to standard.
The specific activity as determined by its ability to chemoattract rat neutrophils cells using a concentration of 10-100 ng/ml.

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