

Rat IL20 / Interleukin-20 Protein

Catalog Number: 80422-RNAE



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

IL20

Protein Construction:

A DNA sequence encoding the rat IL20 (P11762) (Leu25-Leu176) was expressed and purified.

Source: Rat

Expression Host: E. coli

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Leu 25

Molecular Mass:

The recombinant rat IL20 consists of 153 amino acids and has a predicted molecular mass of 17.7 kDa. As a result of glycosylation, the apparent molecular mass of the recombinant protein is approximately 17 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, 20% Glycerol, pH 7.4.

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

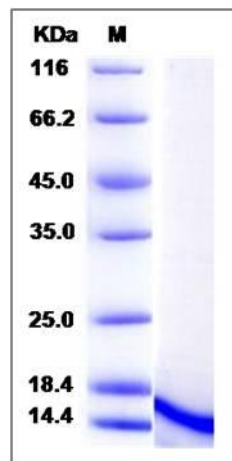
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

IL20/Interleukin-20 is a member of the IL-10 family. It is a cytokine structurally related to interleukin 10. Cytokines are secreted by numerous cells and are a category of signaling molecules used extensively in intercellular communication. IL20/Interleukin-20 is expressed at very low levels in skin, trachea, and other tissues. It is produced by activated keratinocytes and monocytes and transmits an intracellular signal through two distinct cell-surface receptor complexes on keratinocytes and other epithelial cells. IL20/Interleukin-20 has been shown to transduce its signal through signal transducer and activator of transcription 3 (STAT3) in keratinocytes. It regulates proliferation and differentiation of keratinocytes during inflammation, particularly inflammation associated with the skin. In addition, it also causes cell expansion of multipotential hematopoietic progenitor cells. A specific receptor for this cytokine is found to be expressed in skin and upregulated dramatically in psoriatic skin, suggesting a role for this protein in epidermal function and psoriasis.

References

1. Chen XY. et al., 2011, Dermatology. 222 (1): 24-30.
2. Baird AM. et al., 2011, Eur J Cancer. 47 (12): 1908-18.
3. Logsdon NJ. et al., 2012, Acta Crystallogr Sect F Struct Biol Cryst Commun. 68(1): 89-92.

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