

Human IL-24 / MDA-7 Protein (His Tag)

Catalog Number: 12265-H08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

C49A, FISP, IL10B, MDA7, MOB5, ST16

Protein Construction:

A DNA sequence encoding the human IL24 isoform 3 (NP_001172085.1) (Met 1-Leu 207) was fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 94 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

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

Predicted N terminal: Gln 53

Molecular Mass:

The secreted recombinant human IL24 consists of 166 amino acids and has a predicted molecular mass of 19.5 kDa. As a result of different glycosylation, the apparent molecular mass of rhIL24 is approximately 35 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, 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.

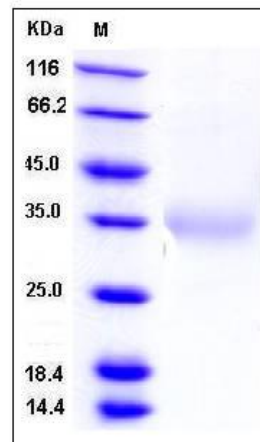
Usage Guide

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

Interleukin-24, also known as melanoma differentiation-associated gene 7 protein, MDA-7, Suppression of tumorigenicity 16 protein and IL24, is a secreted protein which belongs to the IL-10 family. Interleukin-24 / IL-24 is a cytokine belonging to the IL-10 family of cytokines that signals through two heterodimeric receptors: IL-20R1 / IL-20R2 and IL-22R1 / IL-20R2. Interleukin-24 / IL-24 is also known as Melanoma differentiation-associated 7 (mda-7) due to its discovery as a tumour suppressing protein. Interleukin-24 / IL-24 appears to control in cell survival and proliferation by inducing rapid activation of particular transcription factors called Stat-1 and Stat-3. This cytokine is predominantly released by activated monocytes, macrophages and T helper 2 (Th2) cells and acts on non-haematopoietic tissues such as skin, lung and reproductive tissues. Interleukin-24 / IL-24 performs important roles in wound healing, psoriasis and cancer. Cell death occurs in cancer cells / cell lines following exposure to IL-24. Interleukin-24 / IL-24 has anti-proliferative properties on melanoma cells and may contribute to terminal cell differentiation.

References

1. Fisher PB, et al., 2003, Cancer Biology and Therapeutics. Volume 2, pages S23-37.
2. M. Sauane et al., 2004, Cancer Research. Volume 64, pages 2988-93.
3. Wang M, et al., 2005, Immunology, Volume 114, pages 166-70.
4. Poindexter et al., 2005, Journal of Leukocyte Biology. Volume 78, pages 745-52.

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