# IL24 Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | IL24, Recombinant Protein |
| **Full Product Name** | Recombinant Human IL24 |
| **Product Gene Name** | IL24 recombinant protein |
| **Product Synonym Names** | C49A; FISP; IL 24; IL10B; IL24; IL-24; interleukin 24; mda 7; MDA7; Mob 5; ST16 |
| **Host** | E Coli |
| **Form/Format** | Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose and 0.06% proclin, pH7.4 |
| **Purity/Purification** | Greater than 95% by SDS-PAGE gel analyses |
| **Preparation and Storage** | Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution |
| **Molecular Weight** | 7,347 Da |
| **Sequence Positions** | 52-206 |
| **OMIM** | 604136 |
| **3D Structure** | ModBase 3D Structure for Q13007 |
| **Species** | Human |
| **Tag** | N-terminal His-IF2DI Tag |
| **Reconstitution** | Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 200ug/ml in sterile distilled water |
| **ISO Certification** | Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory. |
| **Applications Tested/Suitable for IL24 recombinant protein** | Western Blot (WB), ELISA (EIA) |
| **Related Product Information for IL24 recombinant protein** | MBS7614849 is a recombinant protein targeting IL24. Also known as Recombinant Human IL24. Host: E Coli. |
| **Other Notes** | Small volumes of IL24 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL24. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 297632401 |
| **NCBI GeneID** | 11009 |
| **NCBI Accession #** | NP_001172085.1 |
| **UniProt Primary Accession #** | Q13007 |
| **UniProt Secondary Accession #** | Q2YHE5; Q53XZ7; Q5YLN8; Q96DB0; Q96KG4 |
| **UniProt Related Accession #** | Q13007 |
| **GenBank Nucleotide #** | NM_001185156.1 |

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| **NCBI Official Full Name** | interleukin-24 isoform 3 |
| **NCBI Official Synonym Full Names** | interleukin 24 |
| **NCBI Official Symbol** | IL24 |
| **NCBI Official Synonym Symbols** | C49A; FISP; MDA7; MOB5; ST16; IL10B |
| **UniProt Protein Name** | Interleukin-24 |
| **UniProt Synonym Protein Names** | Melanoma differentiation-associated gene 7 protein; MDA-7; Suppression of tumorigenicity 16 protein |
| **Protein Family** | Interleukin |
| **UniProt Gene Name** | IL24 |
| **UniProt Synonym Gene Names** | MDA7; ST16; IL-24; MDA-7 |
| **UniProt Entry Name** | IL24_HUMAN |
| **NCBI Protein Information** | interleukin-24; IL-4-induced secreted protein; melanocyte-associated Mda-7; melanoma differentiation-associated gene 7 protein; suppression of tumorigenicity 16 (melanoma differentiation) |
| **NCBI Summary for IL24** | This gene encodes a member of the IL10 family of cytokines. It was identified as a gene induced during terminal differentiation in melanoma cells. The protein encoded by this gene can induce apoptosis selectively in various cancer cells. Overexpression of this gene leads to elevated expression of several GADD family genes, which correlates with the induction of apoptosis. The phosphorylation of mitogen-activated protein kinase 14 (MAPK7/P38), and heat shock 27kDa protein 1 (HSPB2/HSP27) are found to be induced by this gene in melanoma cells, but not in normal immortal melanocytes. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for IL24** | IL24: Has antiproliferative properties on melanoma cells and may contribute to terminal cell differentiation. Belongs to the IL-10 family. 4 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Motility/polarity/chemotaxis; Secreted; Secreted, signal peptide<br><br>Chromosomal Location of Human Ortholog: 1q32<br><br>Cellular Component: extracellular space; endoplasmic reticulum<br><br>Molecular Function: cytokine activity<br><br>Biological Process: negative regulation of cell proliferation; wound healing; apoptosis; positive regulation of cell proliferation; positive regulation of JAK-STAT cascade; positive regulation of caspase activity; immune response; negative regulation of caspase activity; inflammatory response; negative regulation of cell migration; positive regulation of tyrosine phosphorylation of Stat3 protein; serine phosphorylation of STAT3 protein |
| **Research Articles on IL24** | **1.** IL-24 has a role in sensitizing melanoma cells to erlotinib through modulation of the Apaf-1 and Akt signaling pathways |
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