

Recombinant Human IL24 Protein (Met1-Leu207), MIgG1 Fc-tagged

Cat. No. IL24-553H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL24 Protein (NP_001172085.1) (Met1-Leu207) was produced by HEK293 Cells expression system. This protein was expressed with the Fc region of mouse IgG1 at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	Met1-Leu207
Description	Interleukin-24 (IL-24) also known as Melanoma differentiation-associated gene 7 protein (MDA-7) is a member of the IL1 family of cytokines. IL-24/MDA-7/IL24 can induce apoptosis selectively in various cancer cells. Overexpression of IL-24 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. Human IL-24/MDA-7/IL24 is secreted by activated peripheral blood mononuclear cells and is the ligand for two heterodimeric receptors, IL-22R1/IL-2R2 and IL-2R1/IL-2R2. Northern blot analysis revealed IL-24/MDA-7/IL24 expression in human tissues associated with the immune system such as spleen, thymus, peripheral blood leukocytes and normal melanocytes. IL-24/MDA-7/IL24 binding to either its endogenous receptors on human keratinocytes or to ectopically expressed receptors

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on baby hamster kidney cells leads to activation of the signal transducers and activators of transcription.

Predicted N Terminal Gln 53

Form Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Mass The recombinant human IL24 consists 389 amino acids and predicts a molecular mass of 44.6 kDa.

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

Purity > 80 % as determined by SDS-PAGE.

Stability Samples are stable for up to twelve months from date of receipt at -70 centigrade.

Storage Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.

Shipping In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.
Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

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Gene Name	IL24 interleukin 24 [Homo sapiens]
Official Symbol	IL24
Synonyms	IL24; interleukin 24; ST16; interleukin-24; C49A; FISP; IL 4 induced secreted protein; IL 24; IL10B; mda 7; MDA7; MOB5;
Gene ID	11009
mRNA Refseq	NM_001185156
Protein Refseq	NP_001172085
MIM	604136
UniProt ID	Q13007

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