

Recombinant Human Interleukin 24

Cat. No. IL24-276H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Interleukin-3 produced in <i>Saccharomyces cerevisiae</i> is a single, glycosylated polypeptide chain containing 158 amino acids and having a molecular mass of 18 kDa. As a result of glycosylation, the protein migrates at 19.5 kDa on SDS-PAGE.
Species	Human
Source	S.Cerevisiae
Description	IL24 is a member of the IL10 family of cytokines. It was identified as a gene induced during terminal differentiation in melanoma cells. IL-10B encoded can induce apoptosis selectively in various cancer cells. Overexpression 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, and heat shock 27kDa protein 1 are found to be induced by this gene in melanoma cells, but not in normal immortal melanocytes.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2µm filtered solution in PBS with BSA as a carrier.
Purity	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Solubility	It is recommended to reconstitute the lyophilized Interleukin-24 in sterile 18MΩ-cm

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H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Biological Activity

Measured by its ability to bind to the cell receptor of Capan-1 cells line resulted in Stat-3 activation. The ED50 for this effect is typically 1.0 ng/mL.

Stability

Lyophilized MDA7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MDA-7 Recombinant should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name

[IL24 interleukin 24 \[Homo sapiens \]](#)

Synonyms

IL24; interleukin 24; C49A; FISP; MDA7; ST16; IL-24; IL10B; Mob-5; mda-7; interleukin-24;IL-24 splice variant delE3; IL-24 splice variant delE5; suppression of tumorigenicity 16 protein; melanoma differentiation association protein 7; melanoma differentiation-associated gene 7 protein; suppression of tumorigenicity 16 (melanoma differentiation)

Gene ID

[11009](#)

mRNA Refseq

[NM_006850](#)

Protein Refseq

[NP_006841](#)

MIM

[604136](#)

UniProt ID

[Q13007.1](#)

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Chromosome Location	1q32
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway
Function	cytokine activity

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