

# Recombinant Human Interleukin 24

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

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b>    | 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 glycosilation, the protein migrates at 19.5 kDa on SDS-PAGE.                                                                                                                                                                                                                                                                          |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>              | S.Cerevisiae                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>         | 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. |
| <b>Physical Appearance</b> | Sterile Filtered white lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Formulation</b>         | Lyophilized from a 0.2nm filtered solution in PBS with BSA as a carrier.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>              | Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Solubility</b>          | It is recommended to reconstitute the lyophilized Interleukin-24 in sterile 18M $\omega$ -cm                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|                            | H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                                                                                                        |
| <b>Biological Activity</b> | 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.                                                                                                                                                                                       |
| <b>Stability</b>           | 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

|                       |                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>      | IL24 interleukin 24 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>       | 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) |
| <b>Gene ID</b>        | 11009                                                                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>    | NM_006850                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b> | NP_006841                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>            | 604136                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>     | Q13007.1                                                                                                                                                                                                                                                                                                                                                   |

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|----------------------------|--------------------------------------------------------------------|
| <b>Chromosome Location</b> | 1q32                                                               |
| <b>Pathway</b>             | Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway |
| <b>Function</b>            | cytokine activity                                                  |

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