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IL 24 Human

Description: Interleukin 24 human recombinant produced in yeast 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.

Synonyms:C49A, FISP, MDA7, ST16, IL-24, IL10B, Mob-5, MDA-7, Suppression of tumorigenicity 16 protein, Melanoma differentiation-associated gene 7 protein.

Source: Sacharomyces cerevisiae.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity: Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
Lyophilized from a 0.2

Stability:
Lyophilized MDA7 althoμgh 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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized IL-24 in sterile 18M-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Introduction:
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 (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. The glycosylation is essential for activity of IL-24. Functionally, IL-24 has diverse activities. At low concentrations, it induces type I proinflammatory cytokines such as IFN-g, IL-1b, IL-12 and TNF-a. At high concentration, it is a strong inducer of apoptosis in tumor cells, but not normal cells. mda-7/IL-24 is being hailed as a magic bullet for cancer gene therapy.

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, corresponding to a Specific Activity of 1x106 units/mg.

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