9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

IL 24 Human

Interleukin-24 Human Recombinant
CYK0304

Product Overview

Name	IL 24 Human
Description	
Interleukin-24 Human Recombinant	
Accession (Primary)	Q13007
Synonyms	
C49A, FISP, MDA7, ST16, IL-24, IL10B, Mob-5, MDA-7, Suppression of tumorigenicity 16 protein, Melanoma differentiation-associated gene 7 protein.	
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.	
Source	
Sacharomyces cerevisiae.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier.	
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.	
Purity	

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

Biological Activity

Measured by its ability to bind to the cell receptor of Capan-1 cells line resulted in Stat-3 activation. The ED 50 for this effect is typically 1.0 ng/ml, corresponding to a Specific Activity of 1x10 6 units/mg.

Solubility

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

Precautions

IL 24 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q13007)