

Recombinant Human IL24

Cat No:HR2R1586

For research use only

Overview

Quantity	10 ?g
Gene Symbol	IL24
Gene ID	11009
Accession	Q13007
Alternative Name	IL-24, Melanoma differentiation-associated gene 7 protein, MDA-7, Suppression of tumorigenicity 16 protein, MDA7, ST16 Recombinant Human Interleukin-24 (IL24)
Species	Human
Source	CHO cells
Description	IL-24 (melanoma differentiation-associated gene-7 [mda-7]), a member of the IL-10 cytokine family, possesses the properties of a classical cytokine as well as tumor suppressor effects. The exact role of IL-24 in the immune system has not been defined but studies have indicated a role for IL-24 in inflammatory conditions such as psoriasis. The tumor suppressor effects of IL-24 include inhibition of angiogenesis, sensitization to chemotherapy, and p38 mitogen-activated protein kinase (MAPK)-mediated apoptosis. Current knowledge on the regulation of IL-24 expression is sparse. The melanoma differentiation- associated gene-7 (mda-7) was discovered through subtraction hybridization of cDNA libraries prepared from melanoma cells. As mda-7 shares considerable structural and sequence homology with IL-10 cytokine family members it was recognized as a member of this family and renamed interleukin-24 (IL-24). IL-24 signals through a heterodimeric receptor complex consisting of the IL-20R-beta subunit together with either the IL-20R-alpha subunit or the IL-22R-alpha subunit. The IL-20R-alpha/IL-20R-beta complex is shared with IL-19 and IL-20 whereas the IL-22R-alpha/IL-20R-beta complex is shared with only IL-20. Binding of IL-24 as well as IL-19 and IL-20 to the receptor complexes results in signal transducer and activator of transcription 3 (STAT3)-activation.
Functions	Activity was determined by the ability to inhibit growth of human A549 cancer cells at concentrations ranging between 50-100 ng/mL.
Formulation	Recombinant Interleukin-24 was lyophilized from 0.2?m filtered solution in PBS, pH 7.4 including 5% (w/v) trehalose.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	18.5
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.

Shipping Condition	Ambient Temperature
Storage Condition	Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8°C for one month, or at -20°C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

