

## IL-24 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P77003
<b>Synonyms:</b>	Interleukin-24; Melanoma differentiation-associated gene 7 protein; MDA-7; ST16
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	NP_001172085.1 (Q53-L207)
<b>Gene ID:</b>	11009
<b>Molecular Weight:</b>	Approximately 35 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>Q E F H F G P C Q V    K G V V P Q K L W E    A F W A V K D T M Q    A Q D N I T S A R L</p> <p>L Q Q E V L Q N V S    D A E S C Y L V H T    L L E F Y L K T V F    K N Y H N R T V E V</p> <p>R T L K S F S T L A    N N F V L I V S Q L    Q P S Q E N E M F S    I R D S A H R R F L</p> <p>L F R R A F K Q L D    V E A A L T K A L G    E V D I L L T W M Q    K F Y K L</p>
<b>Biological Activity</b>	Measured in a cell proliferation assay using BaF3 mouse pro-B cells transfected with human IL20 R $\alpha$ and human IL20 R $\beta$ and the EC <sub>50</sub> is typically 0.05-0.25 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
<b>Endotoxin Level</b>	<1 EU/ $\mu$ g, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	Interleukin-24 (IL-24) belongs to the IL10 family of cytokines and was identified as a gene induced during the terminal differentiation of melanoma cells. The protein encoded by this gene exhibits a remarkable ability to selectively induce apoptosis in various cancer cells. Overexpression of IL-24 results in elevated expression of several GADD family genes, which is associated with the induction of apoptosis. In melanoma cells, IL-24 induces the phosphorylation of mitogen-activated protein kinase 14 (MAPK7/P38) and heat shock 27kDa protein 1 (HSPB2/HSP27), but this effect is not observed in normal
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immortal melanocytes. Multiple alternatively spliced transcript variants encoding distinct isoforms have been reported, emphasizing the complex regulatory landscape of IL-24. With biased expression in lymph node (RPKM 12.3), spleen (RPKM 9.6), and various other tissues, IL-24 plays a crucial role in orchestrating apoptosis and immune responses.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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