

IL-24 Protein, Human (HEK293, His)

Cat. No.:	HY-P77003
Synonyms:	Interleukin-24; Melanoma differentiation-associated gene 7 protein; MDA-7; ST16
Species:	Human
Source:	HEK293
Accession:	Q13007-2/NP_001172085.1 (Q53-L207)
Gene ID:	11009
Molecular Weight:	Approximately 35 kDa

PROPERTIES

AA Sequence	<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>
Biological Activity	Measured in a cell proliferation assay using BaF3 mouse pro-B cells transfected with human IL20 R α and human IL20 R β and the EC ₅₀ is typically 0.05-0.25 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	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.

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

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