

Animal-Free IL-24 Protein, Human (His)

| | |
|--------------------------|---|
| Cat. No.: | HY-P700115AF |
| Synonyms: | Interleukin-24; Melanoma differentiation-associated gene 7 protein; MDA-7; ST16 |
| Species: | Human |
| Source: | E. coli |
| Accession: | Q13007 (Q52-L206) |
| Gene ID: | 11009 |
| Molecular Weight: | Approximately 19.10 kDa |

PROPERTIES

| | |
|--------------------------------|---|
| AA Sequence | <p> M 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 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 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 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 | Measure by its ability to chemoattract BaF3 cells transfected with human IL-20R alpha and IL-20R beta. The ED ₅₀ for this effect is <100 pg/mL. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a solution containing 1X PBS, pH 8.0. |
| Endotoxin Level | <0.1 EU per 1 µg of the protein by the LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/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 | <p>IL-24 protein, a multifunctional cytokine primarily produced by T-cells, orchestrates a regulatory role in immune responses, tissue homeostasis, host defense, and oncogenesis. Demonstrating antiviral functions, IL-24 induces the type I interferon response during influenza infection. The cytokine signals through two receptor complexes, IL20RA/IL20RB or IL20RB/IL22RA1, stimulating the JAK1-STAT3 and MAPK pathways, thereby promoting the secretion of pro-inflammatory mediators, including IL8 and MMP1. Intracellularly, IL-24 maintains endoplasmic reticulum homeostasis by constraining the eIF2α/CHOP pathway-mediated stress signal. Additionally, it acts as a quality control mechanism for the ubiquitin</p> |
|-------------------|--|

proteasome system, detecting proteasome dysfunction and activating PKR/EIF2AK2.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA