

IL-19 Protein, Human (sf9, His)

Cat. No.:	HY-P73183
Synonyms:	Interleukin-19; IL-19; IL19; ZMDA1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9UHD0 (M1-A177)
Gene ID:	29949
Molecular Weight:	Approximately 19.2 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 7.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by 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	The IL-19 Protein serves a dual role as an anti-inflammatory and proangiogenic factor. It plays a crucial role in shaping adaptive immunity towards an anti-inflammatory phenotype by inducing T-helper 2 responses, achieved through the down-regulation of IFN-gamma and the up-regulation of IL4 and IL13. Produced by osteocytes, IL-19 also contributes to granulopoiesis and the formation of neutrophils. Its biological effects are mediated through a receptor complex comprising the IL20RA and IL20RB heterodimer. Upon binding, IL-19 activates the Janus kinase (JAK) and signal transducer and activator of transcription (STAT) pathway, particularly emphasizing STAT3 activation, highlighting its pivotal role in diverse immunomodulatory functions.
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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