

Animal-Free IL-20 Protein, Mouse (His)

Cat. No.:	HY-P700198AF
Synonyms:	IL-20; Cytokine Zcyto10; Zcyto10; IL10D; MGC96907
Species:	Mouse
Source:	E. coli
Accession:	Q9JKV9 (L25- L176)
Gene ID:	58181
Molecular Weight:	Approximately 18.52 kDa

PROPERTIES

AA Sequence	<p> M L K T L H L G S C V I T A N L Q A I Q K E F S E I R D S V Q A E D T N I D I R I L R T T E S L K D I K S L D R C C F L R H L V R F Y L D R V F K V Y Q T P D H H T L R K I S S L A N S F L I I K K D L S V C H S H M A C H C G E E A M E K Y N Q I L S H F I E L E L Q A A V V K A L G E L G I L L R W M E E M L </p>
Biological Activity	Measure by its ability to induce proliferation in BaF3 cells transfected with human IL-20 R alpha and human IL-20 R beta. The ED ₅₀ for this effect is <2 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
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-20 Protein, a pro-inflammatory and angiogenic cytokine, is primarily secreted by monocytes and skin keratinocytes, and it serves crucial roles in immune responses, regulation of inflammatory responses, hemopoiesis, as well as epidermal cell and keratinocyte differentiation. This protein enhances tissue remodeling and wound-healing activities, playing a key role in maintaining the integrity of epithelial layers during infection and inflammatory responses. IL-20 Protein affects various actin-mediated functions in activated neutrophils, leading to the inhibition of phagocytosis, granule exocytosis, and migration. Its effects are exerted through the type I IL-20 receptor complex (IL20RA and IL20RB) or the type II IL-20 receptor</p>
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complex (IL22RA1 and IL20RB). Furthermore, IL-20 Protein activates a range of signaling processes, including phosphorylations of JAK2 and STAT5, as well as the activation of serine and threonine kinases AKT and ERK1/2. In keratinocytes, it can activate STAT3 phosphorylation and transcriptional activity in a JAK2, ERK1/2, and p38 MAPK-dependent manner. IL-20 Protein forms a 1:1:1 heterotrimeric complex with its primary high-affinity heterodimeric receptor IL20RA/IL20RB.

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

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