

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

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| Cat. No.: | HY-P700111AF |
| Synonyms: | rHuIL-20; IL20; Cytokine Zcyto10 |
| Species: | Human |
| Source: | E. coli |
| Accession: | Q9NYY1 (L25-E176) |
| Gene ID: | 50604 |
| Molecular Weight: | Approximately 18.47 kDa |

PROPERTIES

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| AA Sequence | <div> <div>MLKTLNLGSC</div> <div>VIATNLQEIR</div> <div>NGFSEIRGSV</div> <div>QAKDGNIDIR</div> </div> <div> <div>ILRRTESLQD</div> <div>TKPANRCCLL</div> <div>RHLRLYLDR</div> <div>VFKNYQTPDH</div> </div> <div> <div>YTLRKISSLA</div> <div>NSFLTIKKDL</div> <div>RLCHAHMTCH</div> <div>CGEEAMKKYS</div> </div> <div> <div>QILSHFEKLE</div> <div>PQAAVVKALG</div> <div>ELDILLQWME</div> <div>ETE</div> </div> |
| 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 <0.2 ng/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

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| Background | IL-20 Protein, a pro-inflammatory and angiogenic cytokine predominantly secreted by monocytes and skin keratinocytes, assumes critical roles in immune responses, inflammatory regulation, hemopoiesis, and the differentiation of epidermal cells and keratinocytes. It plays a pivotal part in tissue remodeling and wound-healing processes, contributing to the restoration of epithelial layer homeostasis during infections and inflammatory responses, thereby maintaining tissue integrity. Notably, IL-20 impacts various actin-mediated functions in activated neutrophils, leading to the inhibition of phagocytosis, granule exocytosis, and migration. Its effects are mediated through the type I IL-20 receptor complex, |
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comprising IL20RA and IL20RB, or, alternatively, through the type II IL-20 receptor complex, consisting of IL22RA1 and IL20RB. Functioning as an arteriogenic and vascular remodeling agent, IL-20 activates diverse signaling processes, including the phosphorylation of JAK2 and STAT5, as well as the activation of serine and threonine kinases AKT and ERK1/2. Additionally, it 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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