

Recombinant Human Interleukin-20 (Human IL-20)

Product Information

Product Name	Cat#	Size
	90119ES10	10 µg
Recombinant Human Interleukin-20 (Human IL-20)	90119ES60	100 µg
	90119ES76	500 µg

Product Description

IL-20 belongs to the IL-10 family. It is a cytokine structurally related to interleukin 10. Human IL-20 is synthesized as a 176 amino acid (aa) precursor with a 24 aa signal sequence and a 152 aa mature segment. IL-20 production has been found in skin, trachea, and other tissues. In particular, it is produced by activated keratinocytes and monocytes. It has been shown that IL-20 transduces its signal through signal transducer and activator of transcription 3 (STAT3) in keratinocytes. It may be involved in epidermal function and psoriasis. It also regulates the proliferation and differentiation of keratinocytes during inflammation, particularly inflammation associated with the skin. Also, it is reported to induce the proliferation of multipotential hematopoietic progenitor cells, direct the differentiation and expansion of keratinocytes, and promote the release of proinflammatory mediators in keratinocytes and other IL-20 receptor expressing cells.

Product Properties

Synonyms	Cytokine Zcyto10
Accession	Q9NYY1
GeneID	50604
Source	E.coli-derived Human IL-20, Leu25-Glu176, with an N-terminal Met.
Molecular Weight	Approximately 17.6 kDa.
AA Sequence	MLKTLNLGSC VIATNLQEIR NGFSEIRGSV QAKDGNIDIR ILRRTESLQD TKPANRCCLL RHLLRLYLDR VFKNYQTPDH YTLRKISSLA NSFLTIIKKDL RLCHAHMTCH CGEEAMKKYS QILSHFEKLE PQAAVVKALG ELDILLQWME ETE
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Biological Activity	The ED50 as determined by a cell proliferation assay using human IL-20R α and human IL-20R β co-transfected murine BaF3 pro-B cells is less than 0.5 ng/mL, corresponding to a specific activity of > 2.0 $\times 10^6$ IU/mg. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.2, with trehalose. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^\circ\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.