

## Recombinant Mouse Interleukin-20 (rm IL-20)

**Synonyms:** IL10D, ZCYTO10, Four alpha helix cytokine Zcyto10.

**Introduction:** IL-20 is a cytokine structurally related to Interleukin 10. IL-20 has been shown to transduce its signal through signal transducer and activator of transcription 3 (STAT3) in keratinocytes. A specific receptor for IL-20 is found to be expressed in skin and upregulated dramatically in psoriatic skin, suggesting a role for this protein in epidermal function and psoriasis.

**Description:** Recombinant murine IL-20 produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 152 amino acids and having a molecular mass of 17.6 kDa. The rm IL-20 is purified by proprietary chromatographic techniques

**Source:** *Escherichia Coli*.

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder

**Formulation:** lyophilized from a 0.22 µm filtered solution in 25 mM Sodiumphosphate, 200 mM NaCl, pH 6.5  
The aliquots of 1 µg and 2 µg contain Trehalose 5% (w/vol) for better recovery

**Solubility:** It is recommended to reconstitute the lyophilized rm IL-20 in sterile water not less than 100 µg/ml which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rm IL-20 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rm IL-20 should be stored for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).  
Please prevent freeze-thaw cycles.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Endotoxicity:** The endotoxin level is less than 1 EU / µg determined by LAL method

**Amino acid sequence:** MLKTLHLGSC VITANLQAIQ KEFSEIRDSV QAEDTNIDIR ILRTTESLKD  
IKSLDRCCFL RHLVRFYLDR VFKVYQTPDH HTLRKISSLA NSFLIIKKDL SVCHSHMACH CGEEAMEKYN  
QILSHFIELE LQAAVVKALG ELGILLRWME EML

**Biological Activity:** The biological activity was tested by mIL-20 induced reporter gene expression in hIL-20R transfected Ba/F3 cells.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	12340202
<i>medium</i>	10 µg	Cat.N°	12340203
<i>large</i>	50 µg	Cat.N°	12340205
<i>x-large</i>	250 µg	Cat.N°	12340207
<i>xx-large</i>	1000 µg	Cat.N°	12340208

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