



Recombinant Rat IL-10

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

| | |
|------------------|----------------------------|
| Cat.-no.: | R20-009 |
| Size: | 10 µg |
| Lot. No.: | According to product label |

Sequence

```
SKGHSIKGDN NCTHFPVSQT HMLRELRAAF SQVKTFQKK  
DQLDNIVLTD SLLQDFKGYL GCQALSEMIK FYLVEVMPQA  
ENHGPEIKEH LNSLGEKLT LWIQLRRCHR FLPENKSKA  
VEQVKNDFNK LQDKGVYKAM NEFDIFINCI EAYVTLKMKK
```

Database References

| | |
|------------------------|-----------|
| Protein RefSeq: | NP_036986 |
| Uniprot ID: | P29456 |
| mRNA RefSeq: | NM_012854 |

Scientific Background

| | |
|------------------------|-------------|
| Gene-ID (NCBI): | 25325 |
| Synonyms: | IL10; IL10X |

Interleukin 10 (IL-10), initially designated cytokine synthesis inhibitory factor (CSIF), was originally identified as a product of mouse T helper (Th) 2 clones that inhibited cytokine production by Th1 clones. The human ortholog of mouse IL-10 was subsequently cloned by cross-hybridization. Human and mouse IL-10 are 81% identical at the nucleotide and amino acid level. IL-10 is the prototypic member of the IL-10 cytokine family, including IL-10, IL-19, IL-20, IL-22 (IL-TIF), IL-24 and IL-26. A number of viruses, including Epstein-Barr virus (EBV) and human cytomegalovirus (HCMV), also encode viral members of the IL-10 family. Human IL-10 has cross-species activity and is active on mouse cells. Rat and mouse IL-10 is species-specific and does not act on human cells.

Product Specifications

| | |
|------------------------|------------------------------------|
| Expressed in | E. coli |
| Purity | > 98% by SDS-PAGE & HPLC analyses |
| Endotoxin level | < 0.1 ng /µg of protein (<1EU/µg). |
| Formulation | lyophilized |
| Length (aa): | 160 |
| MW: | 18.7 kDa |

Biological Activity: The ED50 as determined by the dose-dependent inhibition of antigen-specific T cell proliferation is ≤10ng/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!