

## Product datasheet for TP723192

### IL13 (NM\_002188) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human interleukin 13 (IL13).
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MSPGPVPPST ALRELIEELV NITQNQKAPL CNGSMVWSIN LTAGMYCAAL ESLINVSGCS AIEKTQRMLS GFCPHKVSAG QFSSLHVRDT KIEVAQFVKD LLLHLKFLR EGQFN
Tag:	Tag Free
Predicted MW:	13 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 $\mu$ M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	This IL-13 analog shows a two fold increase, relative to wild type IL-13, in bioactivity as measured by the in-vitro dose dependent activation of STAT6 and IL-13 dependent gene induction in transfected A201.1 cells. This analog has also been shown to exhibit increased in vivo activity compared to wild type IL-13, as measured by the induction of airway hyper-responsiveness.
Endotoxin:	Endotoxin level is < 0.1 ng/ $\mu$ g of protein (< 1 EU/ $\mu$ g)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	<a href="#">NP_002179</a>
Locus ID:	3596
UniProt ID:	<a href="#">P35225</a>
RefSeq Size:	1282
Cytogenetics:	5q31.1
RefSeq ORF:	438
Synonyms:	IL-13; P600



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**Summary:**

This gene encodes an immunoregulatory cytokine produced primarily by activated Th2 cells. This cytokine is involved in several stages of B-cell maturation and differentiation. It up-regulates CD23 and MHC class II expression, and promotes IgE isotype switching of B cells. This cytokine down-regulates macrophage activity, thereby inhibits the production of pro-inflammatory cytokines and chemokines. This cytokine is found to be critical to the pathogenesis of allergen-induced asthma but operates through mechanisms independent of IgE and eosinophils. This gene, IL3, IL5, IL4, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL4. [provided by RefSeq, Jul 2008]

**Protein Families:**

Druggable Genome, Secreted Protein, Transmembrane

**Protein Pathways:**

Asthma, Cytokine-cytokine receptor interaction, Fc epsilon RI signaling pathway, Jak-STAT signaling pathway

**Product images:**