

## Product datasheet for **TP723734**

### IL4 (NM\_021283) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse interleukin 4 (IL4), transcript variant 1
Species:	Mouse
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	Mouse IL-4, the region of His23-Ser140, from gene Accession# NM_021283
Tag:	Tag Free
Predicted MW:	13.3 kDa
Concentration:	lot specific
Purity:	>95%, as determined by Coomassie stained SDS-PAGE.
Buffer:	1 x PBS
Bioactivity:	The ED50 is 2 - 4 ng/ml, corresponding to a specific activity of 2.5 - 5 x 10 <sup>5</sup> units/mg, determined by CTLL-2 cell proliferation induced by mouse IL-4 in a dose dependent manner.
Endotoxin:	Less than 0.01 ng per µg protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	<a href="#">NP_067258</a>
Locus ID:	16189
UniProt ID:	<a href="#">P07750</a>
RefSeq Size:	605
Cytogenetics:	11 31.97 cM
RefSeq ORF:	420
Synonyms:	BSF-1; IL-4



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**Summary:**

Participates in at least several B-cell activation processes as well as of other cell types (PubMed:3083412). It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells (PubMed:3498301). It enhances both secretion and cell surface expression of IgE and IgG1 (PubMed:3498301). It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. Positively regulates IL31RA expression in macrophages (PubMed:25847241). Stimulates autophagy in dendritic cells by interfering with mTORC1 signaling and through the induction of RUFY4 (PubMed:26416964).[UniProtKB/Swiss-Prot Function]