

Product Datasheet

Mouse I17 protein (orb594833)

Catalog Number	orb594833
Category	Proteins
Description	This Mouse I17 protein spans the amino acid sequence from region 26-154aa. Purity: Greater than 95% as determined by SDS-PAGE.
Tag	C-terminal 6xHis-tagged
Form/Appearance	Lyophilized powder
Buffer/Preservatives	Lyophilized from a 0.2 µm filtered 1xPBS, pH 7.4
Purity	Greater than 95% as determined by SDS-PAGE.
Protein Sequence	ECHIKDKEGKAYESVLMISIDELDKMTGTDSNCPNNEPNFFRKHVCDTKEAAFLNRAARKL KQFLKMNISEEFNVHLLTVSQGTQTLVNCTSKEEKNVKEQKKNDACFLKRLREIKTCWNKI LKGS
Protein Length	Full Length of Mature Protein
UniProt ID	P10168
MW	15.9 kDa
Application notes	Full Length of Mature Protein
Endotoxins	Less than 1.0 EU/µg as determined by LAL method.
Source	Mammalian cell
Biological Origin	Mus musculus (Mouse)
Biological Activity	The ED50 as determined in a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBL) is 60-1000 pg/ml.

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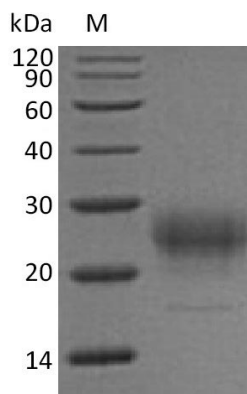
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Expression Region 26-154aa**Storage** The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.**Background** Mouse interleukin-7(IL-7) is the member of hemopoietin family which is important to the differentiation, proliferation, and survival of lymphocyte. Mouse IL-7 shares approximately 88% aa sequence identity with rat IL-7 and 58-60% with human, equine, bovine, ovine, porcine, feline and canine IL-7. It is widely expressed in primary and secondary lymphoid tissues cell and stromal epithelial cells of the thymus, bone marrow, and intestines. IL-7 activation of IL-7 R alpha is critical for both T cell and B cell lineage development. It is important for proliferation during certain stages of B-cell maturation. IL-7 contributes to the maintenance of all naïve and memory T cells, mainly by promoting expression of the anti-apoptotic protein Bcl-2. It is required for optimal T cell-dendritic cell interaction**Note** For research use only**Expiration Date** 6 months from date of receipt.

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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