

Product datasheet for **TP728355M**

Recombinant IL-34 (Interleukin-34), Mouse

Product data:

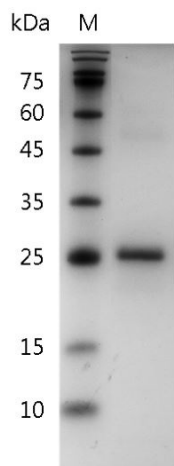
Product Type:	Recombinant Proteins
Description:	Recombinant IL-34 (Interleukin-34), Mouse
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MNENLEIWTLTQDKECDLTGYLRGKLQYKNRLQYMKHYFPINYRIAVPYEGLRVANITRLQKAHVSERELRYLWVVLVSLNATESVMDVLLEGHPWSWKYLQEVQTLLENVQRSLMDVEIGPHVEAVLSLLSTPGLSLKLVRPKALLDNCFRVMELLYCSCCKQSPILKWQDCELPRLHPHSPGSLMQCTATNVYPLSRQTPSTLPGSPSSHGSLP with polyhistidine tag at the C-terminus.
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 25.52 kDa. The protein migrates about 25 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>98% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4.
Bioactivity:	Measure by its ability to induce proliferation in NFS-60 cells. The ED ₅₀ for this effect is <30 ng/mL. The specific activity of recombinant mouse IL-34 is > 3.3 x 10 ⁴ IU/mg.
Endotoxin:	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications:	Cell culture
Storage:	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID:	Q8R1R4
Synonyms:	2010004A03Rik,IL34



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Summary:

Interleukin 34 (IL-34) is a 23.98 kDa cytokine with 216 amino acid residues. IL-34 is a ligand of the colony-stimulating factor 1 receptor (CSF-1R) and is mainly secreted from the adrenal, frontal lobe, and cortex. IL-34 play a vital role in the proliferation, survival, differentiation, and migration of myeloid cells. These functions are mediated by IL-33 activating ERK1 /2, JAK, and PI3K/AKT signal pathways.

Product images:

SDS- PAGE analysis of recombinant mouse IL-34