

Human IL12RB1, C-His Tag (ECD) Protein

HA210728



Product name:	Human IL12RB1, C-His Tag (ECD)
Species reactivity:	Human
Bio-Activity:	Testing in progress.
Protein construction description:	A DNA sequence encoding the human IL12RB1 protein (P42701) (Cys 24-Glu 540) was expressed with a His tag at the C-terminus.

Background: Interleukin 12 (IL-12) is a key mediator of cellular-immunity and induces the differentiation of Th1 cells from precursor T helper cells. The biological activities of IL-12 are mediated through the high-affinity receptor complex composed of two subunits designated IL-12 R beta 1 and IL-12 R beta 2. Individually, IL-12 R beta 1 and IL-12 R beta 2 bind IL-12 with low affinity. Co-expression of both subunits confers high-affinity binding and is required for IL-12 activity. Both IL-12 receptor subunits are type I membrane proteins that share similarities with the gp130/G-CSF R subgroup in the cytokine receptor superfamily. IL-12 R beta 1 cDNA encodes a 662 amino acid (aa) residue protein with a putative 23 aa residue signal peptide that is cleaved to generate the mature protein with a 522 aa residue extracellular domain, a 25 aa residue transmembrane domain and a 92 aa residue cytoplasmic region. Expression of IL-12 R beta 1 has been detected in activated T cells, NK cells and B cells. The expression of IL-12 R beta 2 is more restricted and appears to be limited to Th2 cells.

Purity:	>90% as determined by SDS-PAGE.
Endotoxin:	Less than 1.0 EU per µg by the LAL method.
Fragment region:	IL12RB1 (24-540)
Source:	HEK293
Accession:	P42701
Predicted molecular mass:	58.5 kD
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution:	Reconstitute at 250 µg/ml in sterile water.
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

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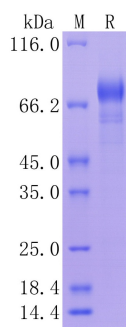


Fig1: Protein on SDS-PAGE under reducing (R) condition.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".
