ELK Biotechnology

Recombinant Human IL-12RB1 (C-Fc)

Catalog #	EPT271
Expression Host	Human Cells
DESCRIPTION	Recombinant Human Interleukin-12 Receptor Subunit Beta-1 is produced by our Mammalian expression system and the target gene encoding Cys24-Glu540 is expressed with a Fc tag at the C-terminus.
Accession	P42701
Synonyms	CD212; IL12RB1; CD212; CD212 antigen; IL-12 receptor beta component; IL-12 receptor subunit beta-1; IL12R; IL-12R subunit beta-1; IL12RB; IL-12RB1; IL-12R-BETA1; IL-12R-beta-1; interleukin-12 receptor beta-1 chain; interleukin-12 receptor subunit beta-1
Mol Mass	84.2 KDa
AP Mol Mass	95-110 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Endotoxin	Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.

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FORMULATION	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
RECONSTITUTION	Always centrifuge tubes before opening.Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
SHIPPING	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
STORAGE	Lyophilized protein should be stored at < -20 ° C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20° C for 3 months.
BACKGROUND	Interleukin12 receptor subunit beta 1 (IL12RB1) is a type I transmembrane protein that belongs to the hemopoietin receptor superfamily. IL12RB1 can spontaneously form homodimers and -oligomers,

which are able to bind IL12 with only low affinity. IL12 high affinity receptor complex is composed of two subunits designated IL12RB1 and IL12RB2. While IL12RB1 interacts with the IL-12p40 subunit, IL-12p35 is mainly connecting with IL12RB2. This receptor chain is also responsible for transmitting the IL12 signal into the cell. IL12RB1, to the contrary, is also part of the IL23R, where it interacts with the p40 subunit of IL23. IL12RB1 is expressed in activated T cells, NK cells and B cells.

SDS-PAGE