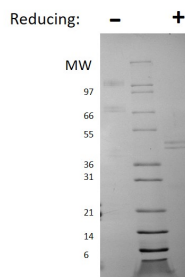


Recombinant Mouse Interleukin-12

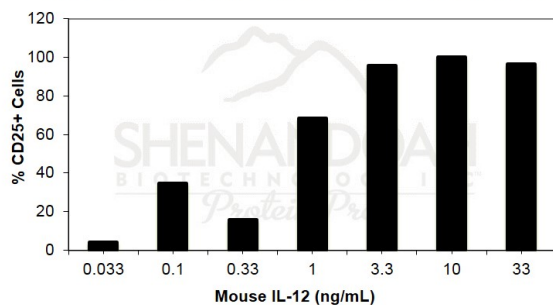
Catalog No.	CS357A CS357B CS357C CS357D	Quantity:	2 µg 10 µg 1 mg 100 µg
Alternate Names:	p40, Il12-b, Il12p40, Il-12p40 / p35, Il12a, Il-12a, IL-12p35		
Description:	Interleukin-12 (IL-12) is an important mediator of cellular-immunity produced by dendritic cells, macrophages and B cells when stimulated with antigen. IL-12 is involved in differentiating precursor helper T cells to Th1 and/or Th2 subtypes and promotes the production of IFN gamma and TNF alpha. Mouse IL-12 is active on human and mouse cells. Recombinant mouse IL-12 is a glycosylated, disulfide-linked heterodimer. It is containing one p35 subunit (193aa) and one p40 subunit (313aa), with a total of 506 amino acids.		
Physical Appearance:	Sterile filtered white lyophilized (freeze-dried) powder.		
Gene ID:	16160		
Protein Accession No:	P43432/P43431		
Source:	HEK 293 cells		
Molecular Weight:	predicted p35 = 21.7 kDa, p40 = 35.8 kDa, total predicted 57.5 kDa		
Formulation:	10 mM sodium phosphate, 50 mM NaCl, pH 7.5.		
Purity:	≥ 95.0% by reducing and non-reducing SDS-PAGE.		
Endotoxin Level:	≤ 1 EU/µg protein, by kinetic LAL		
Biological Activity:	≤ 20 ng/ml, as determined by the induced expression of CD25 on CD8+ mouse T cells		
Specific Activity:	≥ 5.0 x 10 ⁴ units/mg		
Reconstitution:	Centrifuge vial prior to opening. Reconstitute by gently pipetting to wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.		
Storage & Stability:	Store as supplied for up to 1 year at -20°C to -80°C. Reconstituted material should stored as working aliquots at -20°C to -80°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.		



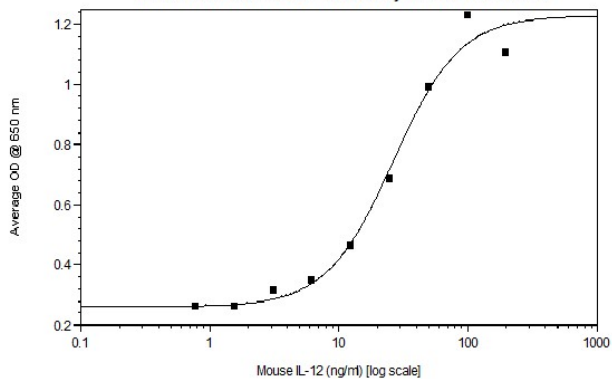
Mouse IL-12

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse IL-12 is a heterodimer comprised of one 40 kDa subunit and one 35 kDa subunit. The total predicted MW is 70 kDa.

Mouse IL-12 Induced Expression of CD25 on CD8+ Mouse T cells



Mouse IL-12 Induced SEAP Production by HEK-blue™ IL-12 cells



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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