

Active Recombinant Mouse IL12A&IL12B protein, His-tagged

Cat. No. IL12A&IL12B-28M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product contains IL12A & IL12B heterodimer. A DNA sequence encoding the p35 subunit of mouse IL12, termed as IL12A (P43431) (Met 1-Ala 215) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the p40 subunit of mouse IL12, termed as IL12B (P43432) (Met 1-Ser 335) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the heterodimer was purified.
Species	Mouse
Source	HEK293
ProteinLength	Met 1-Ala 215&Met 1-Ser 335
Form	Lyophilized from sterile PBS, pH 7.4
Bio-activity	1. Measured by its ability to bind biotinylated recombinant mouse IL12A&IL12BRB2 in a functional ELISA. 2. Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED50 for this effect is 2-10 ng/mL.
Molecular Mass	The recombinant mouse IL12A&IL12B heterodimer of IL12A&IL12BA/IL12A&IL12BB, comprises 528 (204 + 324) amino acids and has a calculated molecular mass of 60.3 (23.1 + 37.2) kDa. The apparent molecular mass of rh IL12A&IL12B heterodimer is approximately 28 & 47 kDa respectively in SDS-PAGE under reducing conditions.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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