

## IL-12 Protein, Rhesus, Recombinant (His)

### General Information

Synonyms:	interleukin 12A
Protein Construction:	A DNA sequence encoding the rhesus IL12A (NP_001038199.1) (Met1-Ser219) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the rhesus IL12B (NP_001038190.1) (Met1-Ser328) was expressed with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the rhesus IL12A & the rhesus IL12B heterodimer was purified. Predicted N terminal: Arg 23 & Ile 23
Species:	Rhesus
Expression Host:	HEK293 Cells
Accession:	NP_001038199.1&NP_001038190.1
Molecular Weight:	60.2 kDa (predicted)

### QC Testing

Biological Activity:	1. Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED50 for this effect is typically 0.2-2 ng/mL. 2. Immobilized Recombinant Cynomolgus IL12RB2 Protein (mFc Tag) (Cat#TMPY-06428) at 2 µg/mL (100 µL/well) can bind Recombinant Rhesus IL-12 (IL12A & IL12B Heterodimer) Protein (Cat#TMPY-03725), the EC50 is 250-750 ng/mL (QC tested). 3. Immobilized Recombinant Rhesus IL-12 (IL12A & IL12B Heterodimer) Protein (Cat#TMPY-03725) at 0.5 µg/mL (100 µL/well) can bind Anti-IL-12 & IL-23 (P40)(Ustekinumab Biosimilar), the EC50 is 1.0-3.0 ng/mL (Routinely tested).
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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