

## IL12 Mouse, Sf9

**Application :** Functional Assay

**Alternative Name :** Interleukin 12 (subunit beta/alpha), IL12b/IL12a, IL-12b/IL-12a, IL-12p40/IL-12p35, IL12p40/IL12p35, p40/p35, Sf9.

### Description

Source: Sf9, Baculovirus cells. Sterile Filtered clear solution. Interleukin 12 subunit beta/alpha or IL12b/IL12a is a growth factor cytokine which increases the lytic activity of NK/lymphokine-activated killer cells, activated T and NK cells and prompt IFN-gamma production (through resting PBMC). IL12b/IL12a is a crucial part to the process of cellular-immunity and activates the differentiation of Th1 cells originates from the precursor T helper cells. The protein is linked to IL23A and creates the IL-23 interleukin, by that, the autoimmune inflammation is induced and autoimmune inflammatory diseases and tumorigenesis are being affected. IL12 Mouse Recombinant produced in a baculovirus expression system is a glycosylated disulfide linked (through cysteines in bold) heterodimer comprised of IL12A (23-335aa, total of 319 aa, MW 35.7kDa) and IL12B (23-215aa, total of 199 aa, MW 22.5kDa), having a total predicted molecular mass of 58.3kDa (Molecular weight on SDS-PAGE will appear higher). IL12A is fused to a 6 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 10 µg

**purification :** Greater than 95.0% as determined by SDS-PAGE.

**Content :** IL12 protein solution (0.5mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

### Application Note

The activity is determined by the IFN-g ELISA in a using NK-92 human natural killer cells. The ED50 for this effect is less or equal to 10ng/ml.