

## OriGene Technologies Inc.

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## OriGene EU

PA1089X

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## Mouse IL-12 (Interleukin-12) - Purified

Alternate names: IL12

Catalog No.: PA1089X
Quantity: 10 μg

**Concentration:** 1 mg/ml (prior to lyophil.)

Background: IL-12 is a heterodimeric cytokine that stimulates the production of interferon gamma from T-

cells and natural killer cells, and also induces differentiation of Th1 helper cells. It is an

initiator of cell-mediated immunity.

Species: Mouse

Source: Insect cells

Format: State: Lyophilized

Purity: >95.8% Purified by proprietary chromatographic techniques, sterile filtered purity >

95.0 % as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Reconstitution:** Sterile 18M $\Omega$ -cm H2O not less than 100 $\mu$ g/ml, which can then be further

diluted to other aqueous solutions.

**Description:** Interleukin-12 Mouse Recombinant produced in Sf9 insect cells is a glycosylated disulfide

linked heterodimeric polypeptide containing 506 amino acids.

AA Sequence:

The sequence of the first five N-terminal amino acids was determined and found to be Arg-Val-Ile-Pro-Val at the p35 subunit and Met-Thr-Glu-Leu-Glu at

the p40 subunit.

Biological Activity: The ED50 was determined by the stimulation of IFN-gamma production

by murine splenocyes co-stimulated with IL-12 and was found to be < 0.1ng/ml,

corresponding to a specific activity of > 1 x 10e7 IU/mg.

Molecular weight: 75 kDa 75 kDa comprised of disulfide-bonded 35 kDa (p35) and 40 kDa

(p40) subunits.

Storage: Lyophilized product is stable at room temperature for one month, should be stored

desiccated below -20 °C. Upon reconstitution it should be stored at 2 - 8 °C up to one week and for future use below -20 °C. For long term storage it is recommended to add a carrier

protein (0.1% HSA or BSA). Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

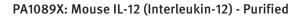
General Readings: 1. Chang HD, Radbruch A. The pro- and anti-inflammatory potential of interleukin-12. Ann N

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