

IL-1 beta/IL-1F2 Protein, Mouse, Recombinant (CHO)

General Information

Synonyms:	IL1beta;IL1-BETA;IL-1;interleukin 1 beta;IL1B;IL1F2
Protein Construction:	Val118-Ser269
Species:	Mouse
Expression Host:	CHO Cells
Accession:	P10749
Molecular Weight:	~17.4 kDa (Non-reducing conditions)

QC Testing

Biological Activity:	ED 50 < 10.0 pg/ml, measured in a cell proliferation assay using D10S cells, corresponding to a specific activity of > 1.0 × 10 ⁸ units/mg.
Purity:	> 95% as determined by SDS-PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.2 EU/μg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μm filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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.

Protein Background

Interleukin-1 (IL-1) is a family of cytokines that play a central role in the regulation of immune and inflammatory responses to infections or sterile insults. IL-1α and IL-1β are the first two members discovered in this family, which are the products of distinct genes recognizing the same cell surface receptors. IL-1α and IL-1β are structurally related polypeptides that show approximately 25% homology at the amino acid level. Both proteins are produced by a wide variety of cells in response to stimuli such as those produced by inflammatory agents, infections, or microbial endotoxins. The proteins are synthesized as 31 kDa precursors that are subsequently cleaved into proteins with molecular weights of approximately 17.5 kDa. The specific protease responsible for the processing of

A DRUG SCREENING EXPERT

IL-1 β is interleukin 1 β -converting enzyme (ICE)/caspase-1. Mature human and mouse IL-1 β share approximately 75% amino acid sequence identity where human IL-1 β has been found to be active on murine cell lines.

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