

## Active GMP Recombinant Human IL1B Protein

Cat. No. IL1B-102HG Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant mature form of human IL1B (NP_000567.1) (Ala 117-Ser 269) was expressed with a N-terminal Met in an animal component free process under cGMP guidelines.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Predicted N Terminal</b>	Met
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5 % mannitol and 0.01% Tween80.
<b>Bio-activity</b>	Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The EC50 for this effect is 0.5-3 ng/mL. The specific activity of Recombinant Human IL-1 $\beta$ is approximately 1 $\times$ 10 <sup>5</sup> IU/ $\mu$ g, which is calibrated against human IL-1 $\beta$ WHO Standard (NIBSC code: 86/680).
<b>Molecular Mass</b>	The GMP recombinant human IL1B consists of 154 amino acids and predicts a molecular mass of 17.5 kDa
<b>Endotoxin</b>	< 0.01 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE.

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<b>Storage</b>	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.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Shipping</b>	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	IL1B interleukin 1, beta [ Homo sapiens ]
<b>Official Symbol</b>	IL1B
<b>Synonyms</b>	IL1B; interleukin 1, beta; interleukin-1 beta; IL 1B; IL1 BETA; IL1F2; IL-1 beta; catabolin; preinterleukin 1 beta; pro-interleukin-1-beta; IL-1; IL1-BETA;
<b>Gene ID</b>	3553
<b>mRNA Refseq</b>	NM_000576
<b>Protein Refseq</b>	NP_000567
<b>MIM</b>	147720
<b>UniProt ID</b>	P01584

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