

Recombinant Human IL-1 beta/IL1B Protein

Catalog Number:PKSH031839



Note: Centrifuge before opening to ensure complete recovery of vial contents.

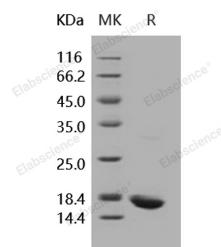
Description

Synonyms	IL-1;IL-1 beta;IL-1B;IL1-BETA;IL1F2
Species	Human
Expression Host	E.coli
Sequence	Ala 117-Ser 269
Accession	NP_000567.1
Calculated Molecular Weight	17 kDa
Observed molecular weight	17 kDa
Tag	None
Bioactivity	<ol style="list-style-type: none">1. Immobilized recombinant human IL1B at 2 μg/mL (100 μl/well) can bind recombinant human IL1R2 with a linear range of 6. 25-400 ng/ml.2. Measured in a cell proliferation assay using D10.G4. 1 mouse helper T cells. The ED50 for this effect is typically 2-8 pg/mL.3. Immobilized human IL1B at 10 μg/mL (100 μl/well) can bind human IL1R1, The EC50 of human IL1R1 is 0.48 μg/mL.4. Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED50 for this effect is 0.4-2 ng/mL.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

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Interleukin-1 beta (IL1 beta or IL1B) also known as catabolin, is a member of the interleukin 1 cytokine family. IL1 is a pleiotropic cytokine. It is involved in the inflammatory response, cell growth, and tissue repair in the cortex. The IL1 superfamily consists of three members, IL1A (IL1 alpha), IL1B (IL1 beta), and IL1 receptor antagonist (IL1Ra). In clinical, it has been reported that Interleukin (IL)-1 may influence Th1 / Th2 immune responsiveness and has been implicated in the establishment of successful pregnancy. Proinflammatory interleukin (IL)-1 gene polymorphisms associated with high levels of IL-1beta activity increase the risk for hypochlorhydria and distal gastric carcinoma. IL1B polymorphisms may be involved in susceptibility to SSc. Moreover, the IL2-384-G allele may be a marker for the limited phenotype of systemic sclerosis (SSc).

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