

Recombinant *Cavia porcellus* IL-1b/IL-1 beta/IL-1F2 Protein (His Tag)



Catalog Number:PKSQ050092

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

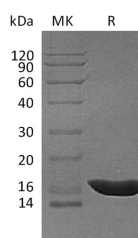
Description

Synonyms	Interleukin-1 beta;IL-1 beta;IL1B;IL1b
Species	<i>Cavia porcellus</i>
Expression Host	E.coli
Sequence	Thr115-Ser266
Accession	Q9WVG1
Calculated Molecular Weight	18.2 kDa
Observed molecular weight	16-19 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 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 man
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Interleukin-1 beta (IL1B) belongs to the IL-1 family. Interleukin 1 (IL-1) is a family of polypeptide cytokines consisting of two agonists, IL-1 alpha (IL-1F1) and IL-1 beta (IL-1F2) encoded by two distinct genes and perform identical biological functions. IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response. It is identified as endogenous pyrogens, and is reported to stimulate the release of prostaglandin and collagenase from synovial cells.

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