

Recombinant Rat IL1A/IL-1F1 Protein (His Tag)

Catalog Number: PDER100226

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

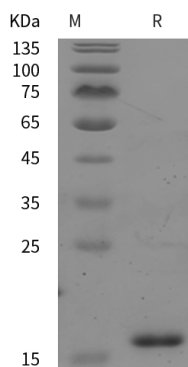
Description

Species	Rat
Source	E.coli-derived Rat IL1A protein Ser115-Ser270, with an N-terminal His
Calculated MW	17.1 kDa
Observed MW	16 kDa
Accession	P16598
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg 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 in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Rat IL1A/IL-1F1 proteins, 2 µg/lane of Recombinant Rat IL1A/IL-1F1 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 16 kDa.

Background

IL-1 alpha (Interleukin-1 alpha) is a cytokine that is induced during microbial exposure and promotes the release of multiple inflammatory mediators and acute phase proteins. It also supports hematopoietic stem cell expansion, promotes neutrophil mobilization from the bone marrow, and promotes osteoclast formation. IL-1 alpha signals through a receptor complex composed of IL-1 RI and IL-1 RAcP. It also binds the decoy receptor IL-1 RII which associates with IL-1 RAcP but does not transduce signaling.

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