

Biotinylated Human IL-1 alpha/IL-1A Protein

Cat. No. IL1-HM40AB

Description	
Source	Recombinant Biotinylated Human IL-1 alpha/IL-1A Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Ser113-Ala271.
Accession	P01583
Molecular Weight	The protein has a predicted MW of 20.95 kDa. Due to glycosylation, the protein migrates to 25-32 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

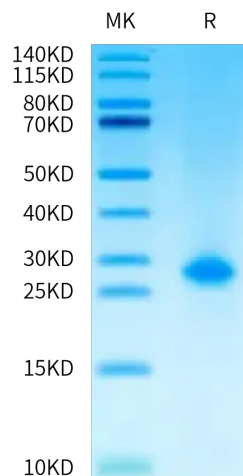
Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The interleukin (IL)-1 family of cytokines is currently comprised of 11 members that have pleiotropic functions in inflammation and cancer. IL-1 α and IL-1 β were the first members of the IL-1 family to be described, and both signal via the same receptor, IL-1R. Over the last decade, much progress has been made in our understanding of biogenesis of IL-1 β and its functions in human diseases.

Assay Data

Tris-Bis PAGE



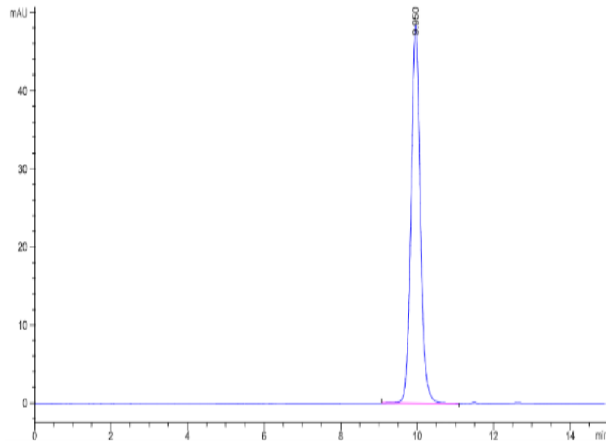
Biotinylated Human IL-1 alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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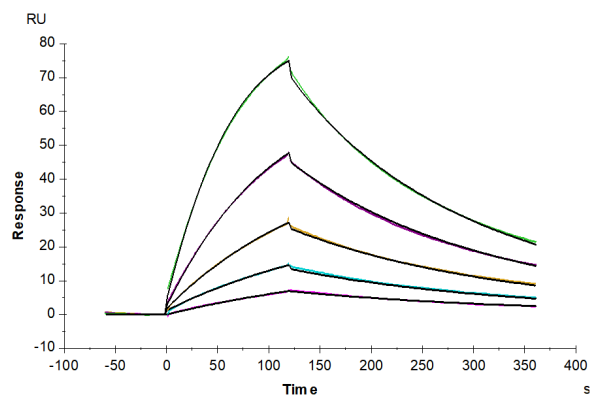
Assay Data



The purity of Biotinylated Human IL-1 alpha is greater than 95% as determined by SEC-HPLC.

Assay Data

SPR Data



Human IL-1R1, His Tag immobilized on CM5 Chip can bind Biotinylated Human IL-1 alpha, His Tag with an affinity constant of 0.76 μ M as determined in SPR assay (Biacore T200).