Human IL-1 alpha/IL-1A Protein

Cat. No. IL1-HM20A



Description	
Source	Recombinant Human IL-1 alpha/IL-1A Protein is expressed from HEK293 with hFc tag at the C-terminus.
	It contains Phe113-Thr271.
Accession	P01583
Molecular Weight	The protein has a predicted MW of 43.99 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

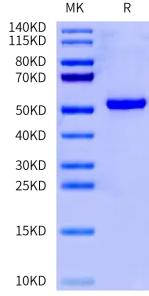
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months 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

Bis-Tris PAGE

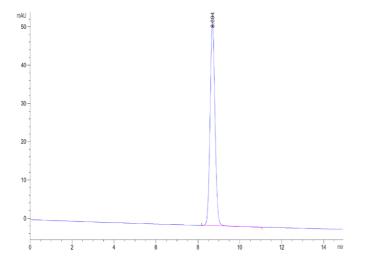


Human IL-1 alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

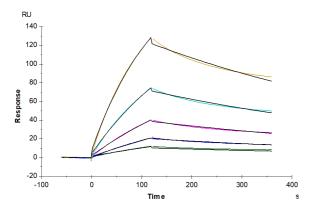
KAGTUS

Assay Data



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

SPR Data



Human IL-1R1, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human IL-1 alpha, hFc Tag with an affinity constant of 0.28 μ M as determined in SPR assay (Biacore T200).