

Human IL-37 Protein

Cat. No. IL7-HE037

Description

Source	Recombinant Human IL-37 Protein is expressed from E.coli without tag. It contains Lys27-Asp192.
Accession	Q9NZH6-2
Molecular Weight	The protein has a predicted MW of 18.55 kDa same as 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

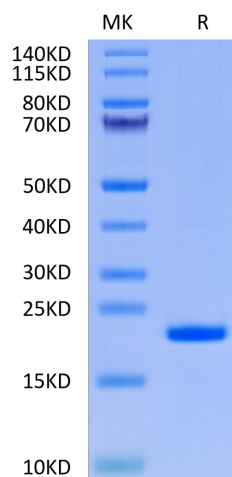
Formulation	Lyophilized from 0.22µm filtered solution in 20mM PBS, 2mM DTT (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state 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

IL-37 is a unique member of the IL-1 family of cytokines, which functions as a natural suppressor of inflammatory and immune responses. Immune and non-immune cells produce IL-37 precursor following pro-inflammatory stimuli. Following activating cleavage by caspase-1, mature IL-37 translocates to the nucleus, where it suppresses transcription of pro-inflammatory genes.

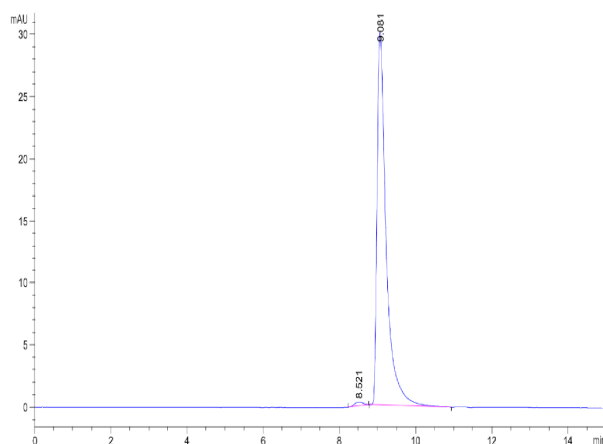
Assay Data

Tris-Bis PAGE



Human IL-37 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

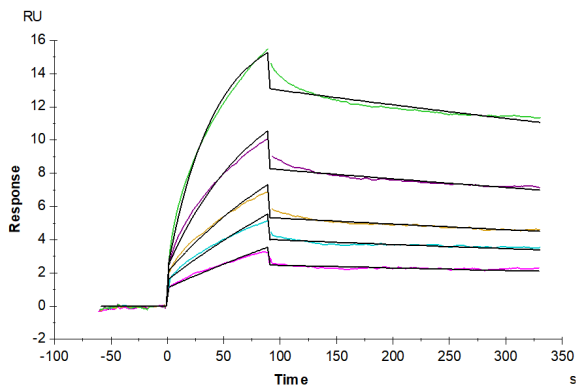
SEC-HPLC



The purity of Human IL-37 is greater than 95% as determined by SEC-HPLC.

Assay Data

SPR Data



Human IL-18BP, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-37, No Tag with an affinity constant of 0.12 μ M as determined in SPR assay (Biacore T200).