Human KLRG1 Protein

Cat. No. KLR-HM2G1

Description

Source	Recombinant Human KLRG1 Protein is expressed from Expi293 with hFc tag at the N-terminal.
	It contains Leu60-Phe195.
Accession	Q96E93-1
Molecular Weight	The protein has a predicted MW of 42.8 kDa. Due to glycosylation, the protein migrates to 50-65 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

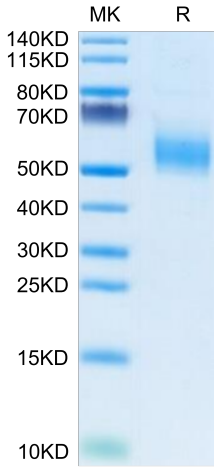
Formulation	Supplied as 0.22μm filtered solution in PBS (pH 7.4). Please dilute to the desired concentration according to the concentration of the solution shown on the product label.
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please do not repeated freeze-thaw cycles.

Background

Immune homeostasis requires the tight, tissue-specific control of the different CD4 Foxp3 regulatory T (Treg) cell populations. The cadherin-binding inhibitory receptor killer cell lectin-like receptor G1 (KLRG1) is expressed by a subpopulation of Treg cells with GATA3 effector phenotype.Lack of KLRG1 on Treg cells conferred on them a competitive advantage in the gut, but not in lymphoid organs. Hence, although absence of KLRG1 is not enough to increase intestinal Treg cells in KLRG1 knockout mice, KLRG1 ligation reduces T-cell receptor signals and the competitive fitness of individual Treg cells in the intestine.

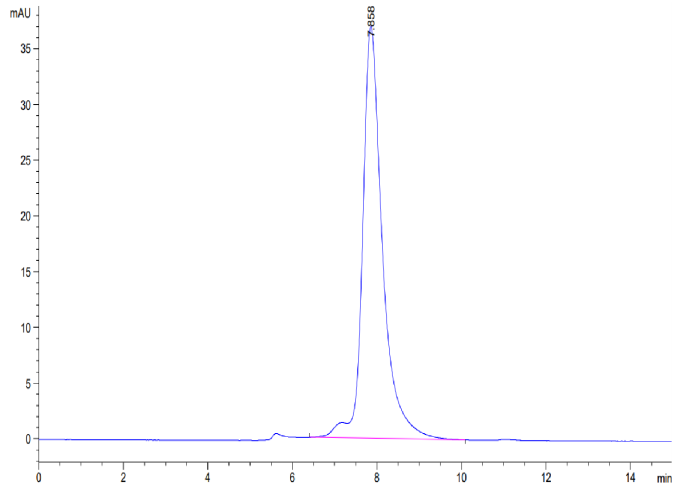
Assay Data

Tris-Bis PAGE



Human KLRG1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



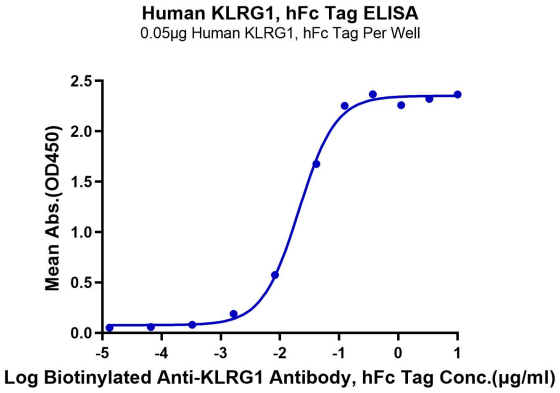
The purity of Human KLRG1 is greater than 95% as determined by SEC-HPLC.

Human KLRG1 Protein

Cat. No. KLR-HM2G1

Assay Data

ELISA Data



Immobilized Human KLRG1, hFc Tag at 0.5μg/ml (100μl/Well) on the plate. Dose response curve for Biotinylated Anti-KLRG1 Antibody, hFc Tag with the EC50 of 20.8ng/ml determined by ELISA.