Mouse KLRG1 Protein

Cat. No. KLR-MM2G1

Description

Source	Recombinant Mouse KLRG1 Protein is expressed from HEK293 with hFc tag at the N-Terminus.
	It contains Gln57-Tyr188.
Accession	O88713
Molecular Weight	The protein has a predicted MW of 42.3 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

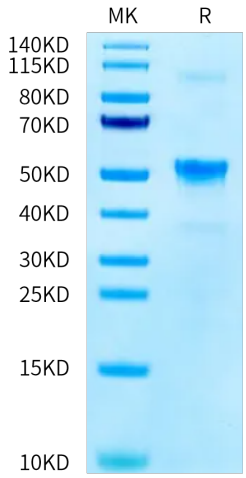
Formulation	Supplied as 0.22μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

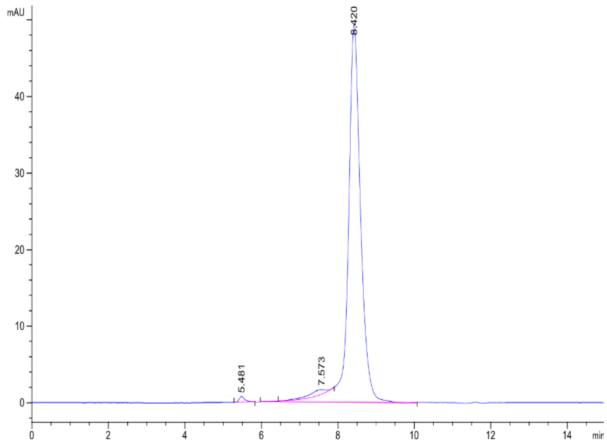
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



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