



Synonym

KLRG1

Source

Cynomolgus KLRG1 Protein, Fc Tag(KL1-C5269) is expressed from human 293 cells (HEK293). It contains AA Leu 60 - Pro 189 (Accession # [A0A2K5WAP9](#)).

Predicted N-terminus: Pro

Molecular Characterization

Fc(Pro 100 - Lys 330) P01857	KLRG1(Leu 60 - Pro 189) A0A2K5WAP9
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This protein carries a human IgG1 Fc tag at the N-terminus.

The protein has a calculated MW of 41.3 kDa. The protein migrates as 43-53 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

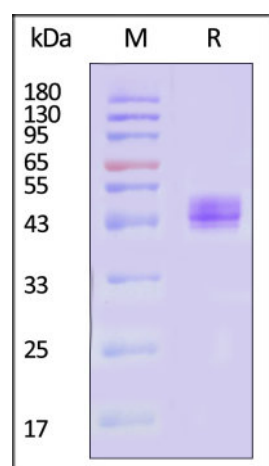
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

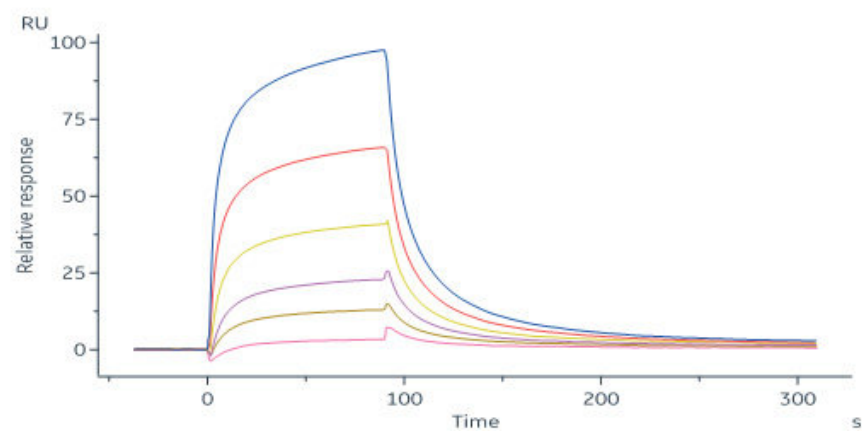


Cynomolgus KLRG1 Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-SPR

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Human E-Cadherin, Fc Tag, premium grade (Cat. No. ECD-H5250) immobilized on CM5 Chip can bind Cynomolgus KLRG1 Protein, Fc Tag (Cat. No. KL1-C5269) with an affinity constant of 4.00 μ M as determined in a SPR assay (Biacore 8K) (QC tested).

Background

The co-inhibitory receptor killer-cell lectin like receptor G1 (KLRG1) is specifically expressed on NK cells and activated CD8⁺ T-cells and has been postulated to be a marker of senescence. KLRG1⁺ T cells are a major reason of chronic tissue damage in some autoimmune diseases such as systemic lupus erythematosus and rheumatoid arthritis. In tumors, tumor cells which express E-cadherin or N-cadherin bind to KLRG1 and inhibit the antitumor activity of T and NK cells. Thus, KLRG1 acts as an immun checkpoints inhibitory receptor.

Clinical and Translational Updates

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