

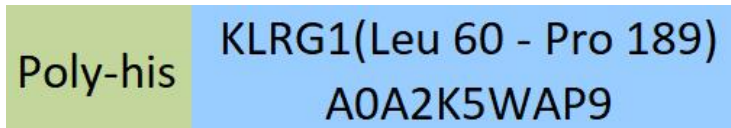
**Synonym**

KLRG1

**Source**

Cynomolgus KLRG1 Protein, His Tag(KL1-C5243) is expressed from human 293 cells (HEK293). It contains AA Leu 60 - Pro 189 (Accession # [A0A2K5WAP9](#)).

Predicted N-terminus: His

**Molecular Characterization**

This protein carries a polyhistidine tag at the N-terminus

The protein has a calculated MW of 16.8 kDa. The protein migrates as 18-21 kDa and 22-30 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 PBS, pH7.4 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.*

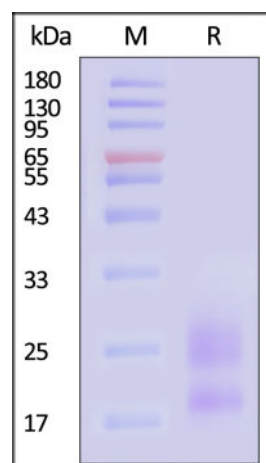
**Storage**

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

*Please avoid repeated freeze-thaw cycles.*

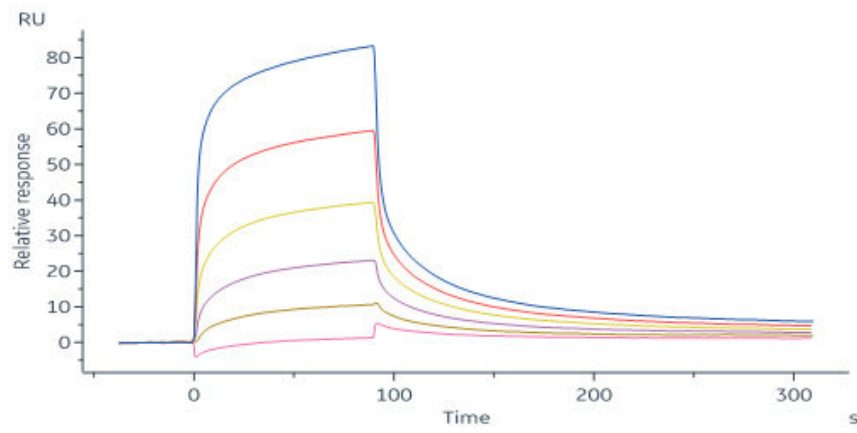
This product is stable after storage at:

- -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, His 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**



Human E-Cadherin, Fc Tag, premium grade (Cat. No. ECD-H5250) immobilized on CM5 Chip can bind Cynomolgus KLRG1 Protein, His Tag (Cat. No. KL1-C5243) with an affinity constant of 2.38  $\mu$ 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<sup>+</sup> T-cells and has been postulated to be a marker of senescence. KLRG1<sup>+</sup> 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

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.