KLRG1 Protein, Human (His-SUMO)

Cat. No.:	HY-P71607
Synonyms:	2F1 Ag; 2F1; C type lectin domain family 15 member A; C-type lectin domain family 15 member A; CLEC15A; KLRG 1; KLRG1; KLRG1 protein
Species:	Human
Source:	E. coli
Accession:	Q96E93 (L60-F195)
Gene ID:	10219
Molecular Weight:	Approximately 31.5 kDa

PROPERTIES

AA Sequence	L C Q G S N Y S T C A S C P S C P D R W M K Y G N H C Y Y F S V E E K D W N S S L E F C L A R D S H L L V I T D N Q E M S L L Q V F L S E A F C W I G L R N N S G W R W E D G S P L N F S R I S S N S F V Q T C G A I N K N G L Q A S S C E V P L H W V C K K C P F A D Q A L F
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The KLRG1 protein exhibits an inhibitory role on the functions of natural killer (NK) cells and T-cells by binding to their non-MHC ligands. It is potentially involved in the recognition of "missing self" by binding to a conserved site on classical cadherins, specifically monitoring the expression of E-cadherin/CDH1, N-cadherin/CDH2, and R-cadherin/CDH4 on target cells. KLRG1 forms a monomer and homodimer that are connected by disulfide bonds. Furthermore, it interacts with PTPN11 and INPP5D through its ITIM motif, potentially participating in signal transduction pathways.

Caution: Product has not been fully validated for medical applications. For research use only.

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