

# Active Recombinant Human Killer Cell Lectin-Like Receptor Subfamily F, Member 1, Fc-tagged

Cat. No. KLRF1-5672H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human KLRF1 protein was expressed in Murine myeloma cell line with the Fc part of human IgG1 Pro100-Lys330 (N-terminus) and Val66-Tyr231 (C-terminus).
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Protein Length</b>	66-231 a.a.
<b>Description</b>	KLRF1 is an 80 kDa type II transmembrane, homodimeric, activating coreceptor expressed exclusively on the surface of NK cells. Human KLRF1, a member of the C-type lectin family of proteins, is 231 aa in length with a 38 amino acid (aa) cytoplasmic region, a 21 aa transmembrane region, and a 172 aa extracellular domain (ECD). The ECD contains the C-type lectin like domain (aa 114-230) and four potential sites of N-linked glycosylation. Multiple splicing variants produce four isoforms for KLRF1.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>N-terminal Sequence</b>	Met
<b>Molecular Weight</b>	45.8 kDa
<b>Activity</b>	Measured by the ability of the immobilized protein to support the adhesion of

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U937 human histiocytic lymphoma cells. Welte, S. et al. (2006) Nat. Immunol. 7:12. rhKLRF1/Fc Chimera, immobilized at 5 µg/mL (100 µL/well), can induce greater than 40% of U937 cell adhesion.

**Endotoxin Level** <1.0 EU per 1 µg of the protein by the LAL method.

**SDS-PAGE** 59-62kDa, reducing conditions.

**Purity** >90%, by SDS-PAGE under reducing conditions and visualized by silver stain.

**Reconstitution** 100 µg/mL in sterile PBS

**Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

## GENE INFORMATION

**Gene Name** [KLRF1 killer cell lectin-like receptor subfamily F, member 1 \[ Homo sapiens \]](#)

**Official Symbol** [KLRF1](#)

**Synonyms** KLRF1; killer cell lectin-like receptor subfamily F, member 1; NKp80; CLEC5C; MGC119907; MGC119908; MGC119909; lectin-like receptor F1; activating coreceptor NKp80; killer cell lectin-like receptor F1; C-type lectin domain family 5 member C; killer cell lectin-like receptor subfamily F member 1; ML; OTTHUMP00000238675; OTTHUMP00000238676; OTTHUMP00000238678

**Gene ID** [51348](#)

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<b>mRNA Refseq</b>	NM_016523
<b>Protein Refseq</b>	NP_057607
<b>MIM</b>	605029
<b>UniProt ID</b>	Q9NZS2
<b>Chromosome Location</b>	12p13.31
<b>Function</b>	MHC class I receptoractivity; binding; receptor activity; sugar binding; transmembrane signalingreceptor activity

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