

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

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	Mammalian Cells
Protein Length	66-231 a.a.
Description	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.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Met
Molecular Weight	45.8 kDa
Activity	Measured by the ability of the immobilized protein to support the adhesion of

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U937human 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 greaterthan 40% of U937 cell adhesion.

Endotoxin Level <1.0 EUper 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 100µg/mL in sterile PBS

Storage Use amanual defrost freezer and avoid repeated freeze-thaw cycles. 12 months fromdate of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterileconditions after reconstitution. 3 months, -20 to -70°C under sterileconditions after reconstitution.

GENE INFORMATION

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

Official Symbol [KLRF1](#)

Synonyms KLRF1; killer celllectin-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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mRNA Refseq	NM_016523
Protein Refseq	NP_057607
MIM	605029
UniProt ID	Q9NZS2
Chromosome Location	12p13.31
Function	MHC class I receptoractivity; binding; receptor activity; sugar binding; transmembrane signalingreceptor activity

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