

## CD158d/KIR2DL4 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P7794
<b>Synonyms:</b>	rHuCD158d, His; Killer Cell Immunoglobulin-Like Receptor 2DL4; CD158 Antigen-Like Family Member D; KIR-103AS; MHC Class I NK Cell Receptor KIR103AS; CD158d; KIR2DL4; KIR103AS
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	ADY38409.1 (W22-H242)
<b>Gene ID:</b>	3805
<b>Molecular Weight:</b>	Approximately 30-40 kDa due to the glycosylation

### PROPERTIES

<b>AA Sequence</b>	<p>           WAHVGGQDKP    FCSAWPSAVV    PQGGHVTLRC    HYRRGFNIFT            LYKKDGVVPP    ELYNRIFWNS    FLISPVTPAH    AGTYRCRGFH            PHSPTWEWAP    SNPLVIMVTG    LYEKPSLTAR    PGPTVRTGEN            VTLSCSSQSS    FDIYHLSREG    EAHELRLPAV    PSINGTFQAD            FPLGPATHE    TYRCFGSFHG    SPYEWSDASD    PLPVSVTGNP            SSSWPSPTPEP    SFKTGIARHL    H         </p>
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>           KIR2DL4 is the most distinct gene in the KIR family. KIR2DL4 is composed of D0 and D2 Ig-like domains (D0 is the first Ig-like domain of the KIR3D subfamily). The KIR2DL4 promoter differs substantially from all other KIR genes, and both alleles are expressed in essentially all activated NK cells. KIR2DL4 is constitutively expressed only on the surface of the CD56bright subset of peripheral blood NK cells. KIR2DL4 associates with the FcεR1γ adapter protein, but not with DAP12 and has a functional ITIM in its cytoplasmic domain. Despite the presence of an ITIM, cross-linking KIR2DL4 with mAb induces the production of IFN-γ in resting NK cells and triggers cytotoxicity and IFN-γ production in IL-2-activated NK cells<sup>[1][2]</sup>.         </p>
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## REFERENCES

[1]. Faure M, et, al. KIR2DL4 (CD158d), an NK cell-activating receptor with inhibitory potential. J Immunol. 2002 Jun 15;168(12):6208-14.

[2]. Lanier LL. NK cell recognition. Annu Rev Immunol. 2005;23:225-74.

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

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