

CD158d/KIR2DL4 Protein, Human (HEK293, His)

Cat. No.:	HY-P7794
Synonyms:	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
Species:	Human
Source:	HEK293
Accession:	ADY38409.1 (W22-H242)
Gene ID:	3805
Molecular Weight:	Approximately 30-40 kDa due to the glycosylation

PROPERTIES

AA Sequence	<pre> WAHVGGQDKP FCSAWPSAVV PQGGHVTLRC HYRRGFNIFT LYKKDGVVPP ELYNRIFWNS FLISPVTPAH AGTYRCRGFH PHSPTEWSAP SNPLVIMVTG LYEKPSLTAR PGPTVRTGEN VTLSCSSQSS FDIYHLSREG EAHELRLPAV PSINGTFQAD FPLGPATHEG TYRCFGSFHG SPYEWSDASD PLPVSVTGNP SSSWPSPTEP SFKTGIARHL H </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	<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 CD56^{bright} 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^{[1][2]}.</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.

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

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