

Recombinant Human KIR2DS2 protein (rFc Tag) (HPLC verified)

Catalog Number: Eg3746

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE
SEC-HPLC**Tag:**
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC**Endotoxin Level:**
<0.1 EU/ µg protein, LAL method**Source:**
HEK293-derived Human KIR2DS2 protein His22-His245 (Accession# P43631) with a rabbit IgG Fc tag at the C-terminus.**GeneID:**
100132285**Accession:**
P43631**Predicted Molecular Mass:**
50.9 kDa**SDS-PAGE:**
55-70 kDa, reducing (R) conditions**Formulation:**
Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

KIR2DS2 is associated with reduced post-transplant recurrence and improved prognosis in solid tumors of hematologic malignancies and is an attractive target for NK-based therapeutic strategies. Furthermore, KIR2DS2 is associated with increased activation of anti-glioblastoma cells and improved clinical responses in breast, colorectal, non-small cell lung and hepatocellular carcinomas. (PMID: 35768150) Currently KIR2DS2 has been shown to directly recognize viral deconjugating peptides in the context of HLA-C and is protective against chronic hepatitis C virus infection. The high sequence homology between KIR2DS2 and inhibitory KIRs (KIR2DL2 and KIR2DL3) has made it difficult to develop an antibody that specifically detects KIR2DS2.

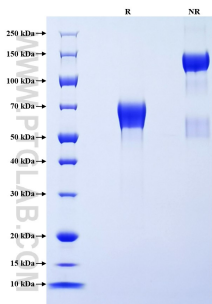
References

1. Blunt MD, et al. J Immunol. 2022;209(2):379-390.
2. Graham LV, et al. Front Oncol. 2024;14:1404051.
3. Blunt MD, et al. HLA. 2019;93(1):32-35.

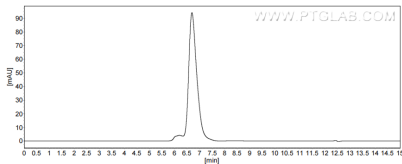
Synonyms

CD158 antigen-like family member J, CD158j, Killer cell immunoglobulin-like receptor 2DS2, Natural killer-associated transcript 5, NK receptor 183 Act1

Selected Validation Data



Purity of Recombinant Human KIR2DS2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human KIR2DS2 was greater than 90% as determined by SEC-HPLC.