

Synonym

NECTIN4, LNIR, PRR4, PVRL4

Source

Cynomolgus Nectin-4, His Tag (NE4-C52H4) is expressed from human 293 cells (HEK293). It contains AA Gly 32 - Ser 349 (Accession # [XP_005541277.1](#)).
Predicted N-terminus: Gly 32

Molecular Characterization

Nectin-4(Gly 32 - Ser 349)
XP_005541277.1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 36.0 kDa. The protein migrates as 40-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

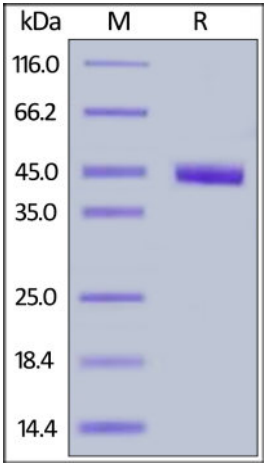
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

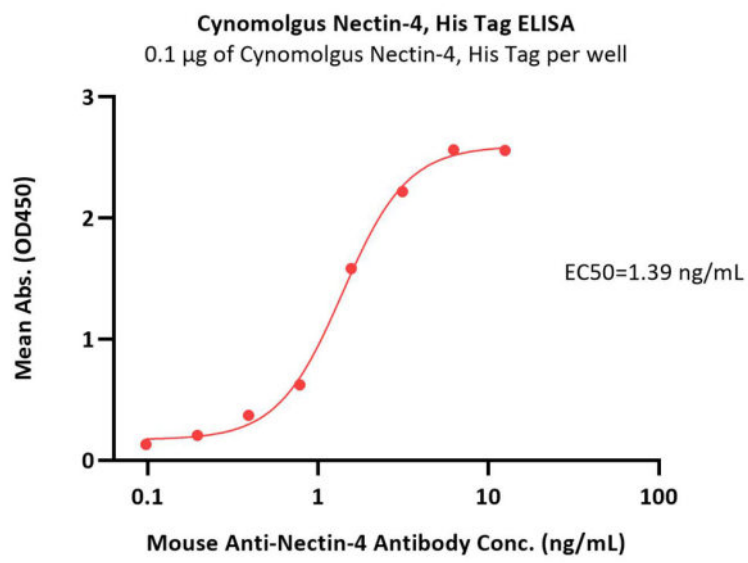
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



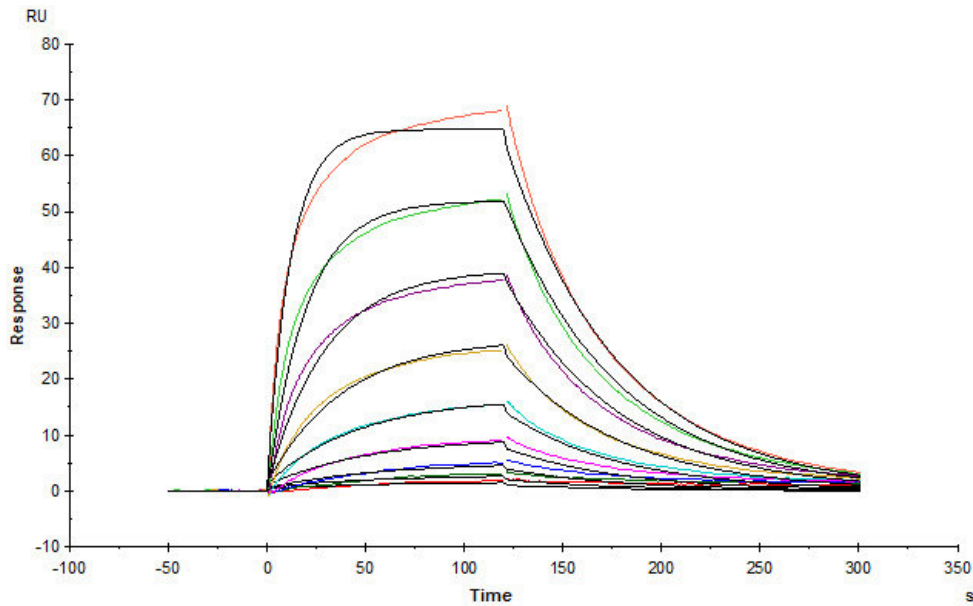
Cynomolgus Nectin-4, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



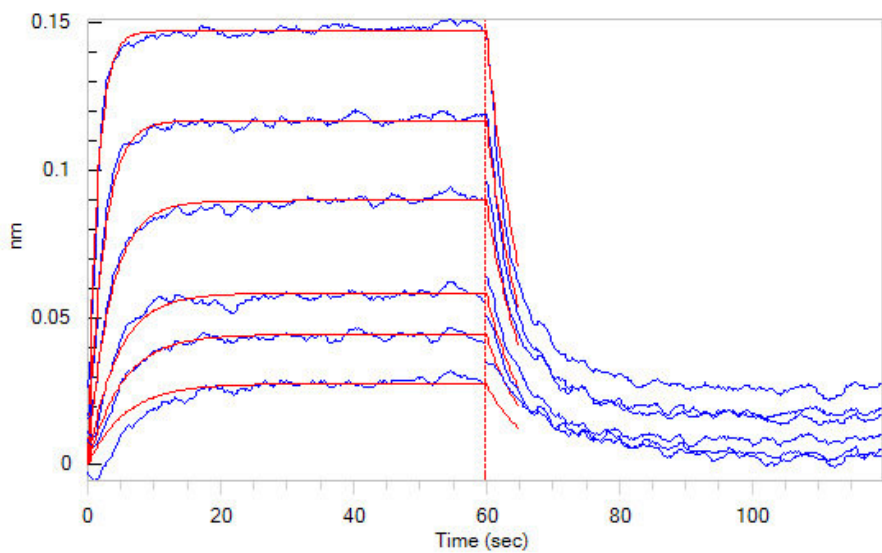
Immobilized Cynomolgus Nectin-4, His Tag (Cat. No. NE4-C52H4) at 1 µg/mL (100 µL/well) can bind Mouse Anti-Nectin-4 Antibody with a linear range of 0.1-2 ng/mL (QC tested).

Bioactivity-SPR



Mouse Anti-Nectin-4 Antibody (Mouse IgG1) captured on CM5 chip via anti-mouse antibodies surface can bind Cynomolgus Nectin-4, His Tag (Cat. No. NE4-C52H4) with an affinity constant of 824 nM as determined in a SPR assay (Biacore T200) (Routinely tested).

Bioactivity-BLI



Loaded Cynomolgus Nectin-4, His Tag (Cat. No. NE4-C52H4) on HIS1K Biosensor, can bind Human Nectin-1, Fc Tag (Cat. No. PV1-H5253) with an affinity constant of 0.23 μ M as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

Nectin-4(Nectin cell adhesion molecule 4) is a Nectin and nectin-like family of cell adhesion molecules. It is found in high levels in normal embryonic and fetal tissues, but decreases after adulthood and is limited in distribution in healthy tissues. Nectin-4 is overexpressed in a variety of tumor cells and promotes tumor cell growth and proliferation. Solid tumors with high expression of Nectin-4 include bladder cancer, pancreatic cancer, triple negative breast cancer, non-small cell lung cancer, stomach cancer, esophageal cancer, ovarian cancer and many other cancers. Studies have found that Nectin-4 promotes tumor cell proliferation, differentiation, migration and invasion by activating the PI3K/Akt pathway, and is believed to play an important role in the occurrence and metastasis of cancer. It is based on these research backgrounds that drug research targeting this target has emerged.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.