



Recombinant Protein Technical Manual
Recombinant Rat Ninjurin/NINJ1 Protein (Fc Tag)
RPES4282

Product Data:

Product SKU: RPES4282

Size: 20µg

Species: Rat

Expression host: HEK293 Cells

Uniprot: P70617

Protein Information:

Molecular Mass: 37 kDa

AP Molecular Mass: 50 kDa

Tag: N-Fc

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein as determined by the LAL method

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: NINJ1

Immunogen Information:

Sequence: Met 1-Pro 79

Background:

Ninjurin, also known as NINJ1, is a member of the Ninjurin family of transmembrane (TM) proteins. It is expressed in CD19(+) CD10(+) B-cell progenitor cells and higher levels in B-lineage acute lymphoblastic leukemia cells. Ninjurin is expressed also in a number of other adult and embryonic tissues, predominantly in epithelial cells. Its expression is upregulated after axotomy in neurons and in Schwann cells surrounding the distal nerve segment. Upregulated expression of ninjurin has been identified as a marker of minimal residual disease in B-lineage acute lymphoblastic leukemia. It mediates homophilic adhesion, and promotes neurite extension of dorsal root ganglion neurons in vitro. Ninjurin has been found to show a high expression level in the liver tissue of patients with hepatocellular carcinoma, and this seems to be associated with cases of cirrhosis and chronic viral hepatitis. It has been reported that NINJURIN increases p21 expression and induces cellular senescence in human hepatoma cells.