

Recombinant Mouse ninjurin 1 Protein, His&Flag tagged

Cat. No. Ninj1-177M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Ninjurin-1 protein (O70131) (Met 1-Pro 79) with both His, Flag tag at the C-terminus was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	1-79aa
Description	Homophilic transmembrane adhesion molecule involved in various processes such as inflammation, cell death, axonal growth, cell chemotaxis and angiogenesis. Promotes cell adhesion by mediating homophilic interactions via its extracellular N-terminal adhesion motif (N-NAM). Involved in the progression of the inflammatory stress by promoting cell-to-cell interactions between immune cells and endothelial cells. Involved in leukocyte migration during inflammation by promoting transendothelial migration of macrophages via homotypic binding. Promotes the migration of monocytes across the brain endothelium to central nervous system inflammatory lesions. Acts as a regulator of Toll-like receptor 4 (TLR4) signaling triggered by lipopolysaccharide (LPS) during systemic inflammation; directly binds LPS. Acts as a mediator of both programmed and necrotic cell death. Plays a key role in the induction of plasma membrane rupture during programmed and necrotic cell death: oligomerizes in response to death stimuli to mediate plasma membrane rupture (cytolysis), leading to release intracellular molecules named damage-associated molecular patterns (DAMPs) that propagate the inflammatory response. Plays a role

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in nerve regeneration by promoting maturation of Schwann cells. Acts as a regulator of angiogenesis. Promotes the formation of new vessels by mediating the interaction between capillary pericyte cells and endothelial cells. Promotes osteoclasts development by enhancing the survival of prefusion osteoclasts. Also involved in striated muscle growth and differentiation.

Tag	C-His&Flag
Molecular Mass	11.3 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	Ninj1 ninjurin 1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Ninj1
Synonyms	NINJ1; ninjurin 1; ninjurin-1; nerve injury-induced protein 1; AU024536;

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Gene ID 18081

mRNA Refseq NM_013610

Protein Refseq NP_038638

UniProt ID O70131

Protein on SDS-PAGE under reducing (R) condition.

