

Recombinant Human KIDINS220 protein, GST-tagged

Cat. No. KIDINS220-32H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KIDINS220(1374 - 1672 aa) fused with GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1374-1672 a.a.
Description	This gene encodes a transmembrane protein that is preferentially expressed in the nervous system where it controls neuronal cell survival, differentiation into axons and dendrites, and synaptic plasticity. The encoded protein interacts with membrane receptors, cytosolic signaling components, and cytoskeletal proteins, serving as a scaffold that mediates crosstalk between the neurotrophin pathway and several other intracellular signaling pathways. Aberrant expression of this gene is associated with the onset of various neuropsychiatric disorders and neurodegenerative diseases, including Alzheimer's disease. Naturally occurring mutations in this gene are associated with a syndrome characterized by spastic paraplegia, intellectual disability, nystagmus and obesity. Alternative splicing results in multiple transcript variants.
Form	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.). Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.
AA Sequence	LDPITEEDEKSDQSGSKLLPGKKSSERSSSLFQTDLKLKGSGLRYQKLPSDEDESGTE

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ESDNTPLLKDDKDRKAEGKVERVPKSPEHSAEPIRTFIKAKEYLSDALLDKKDSSDS
GVRSSSESSPNHSLHNEVADDSQLEKANLIELEDDSHSGKRGIPHSLSGLQDPPIARM
SICSEDKKSPSECSLIASSPEENWPACQKAYNLNRTPTSTVTLNNSAPANRANQNF
DEMEGIRETSQVILRPSSSPNPTTIQNENLKSMTHKRSQRSSYTRLKDPPELHAAA
SSESTGFGEERESIL

Purity 85%, by SDS-PAGE with Coomassie Brilliant Blue staining.

Stability Store for up to 12 months at -20 centigrade to -80 centigrade as lyophilized powder.

Storage Short-term storage: Store at 2-8 centigrade for two weeks.
Long-term storage: Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

Reconstitution Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage.
Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage.
Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

GENE INFORMATION

Gene Name KIDINS220 kinase D-interacting substrate, 220kDa [Homo sapiens]

Official Symbol KIDINS220

Synonyms KIDINS220; kinase D-interacting substrate, 220kDa; kinase D-interacting substrate of 220 kDa; ankyrin repeat rich membrane spanning protein; ARMS; ankyrin repeat-rich membrane spanning; ankyrin repeat-rich membrane-spanning protein; MGC163482;

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Gene ID	57498
mRNA Refseq	NM_020738
Protein Refseq	NP_065789
UniProt ID	Q9ULH0

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