



Synonym

LRRC4, NGL-2, BAG, NAG14

Source

Human LRRC4, His Tag(LR4-H5221) is expressed from human 293 cells (HEK293). It contains AA Ala 39 - Lys 527 (Accession # [AAI11562.1](#)).

Predicted N-terminus: Ala 39

Molecular Characterization

LRRC4(Ala 39 - Lys 527)
 AAI11562.1 Poly-his

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

The protein has a calculated MW of 55.8 kDa. The protein migrates as 90-110 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μ m 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

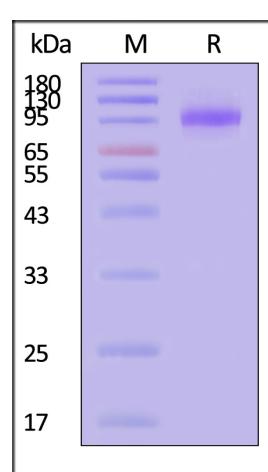
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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



Human LRRC4, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Background

LRRC4 (Leu-rich repeat/LRR-containing glycoprotein 4), LRRC4B and LRRC4C are post-synaptic adhesion molecules of the LRR protein family that induce excitatory synapse formation. LRRC4 is also known as Brain tumor-associated protein BAG, Netrin-G2 ligand (NGL-2), Nasopharyngeal carcinoma-associated gene 14 protein (NAG14), which contains 1 Ig-like (immunoglobulin-like) domain and 9 LRR (leucine-rich) repeats, 1 LRRCT domain, 1 LRRNT domain. LRRC4 / NGL-2 specifically expressed in brain. LRRC4 / NGL-2 regulates the formation of excitatory synapses through the recruitment of pre-and-postsynaptic proteins.

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Human LRRC4 Protein, His Tag

Catalog # LR4-H5221



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LRRC4 / NGL-2 organize the lamina/pathway-specific differentiation of dendrites. LRRC4 / NGL-2 plays a important role for auditory synaptic responses and involved in the suppression of glioma.

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