

Datasheet for ABIN7320172

Neurologin 1 Protein (NLGN1) (His tag)**1** Image[Go to Product page](#)

Overview

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| Quantity: | 100 µg |
| Target: | Neurologin 1 (NLGN1) |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This Neurologin 1 protein is labelled with His tag. |

Product Details

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| Purpose: | Recombinant Mouse Neurologin 1/NLGN1 Protein (His Tag) |
| Sequence: | Met 1-Ser 697 |
| Characteristics: | A DNA sequence encoding the mouse NLGN1 isoform 1 (Q99K10-1) extracellular domain (Met 1-Ser 697) was expressed, with a C-terminal polyhistidine tag. |
| Purity: | > 97 % as determined by SDS-PAGE |
| Endotoxin Level: | < 1.0 EU per µg of the protein as determined by the LAL method. |

Target Details

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| Target: | Neurologin 1 (NLGN1) |
| Alternative Name: | Neurologin 1/NLGN1 (NLGN1 Products) |
| Background: | Background: Neurologin 1 (NLGN1) belongs to the type-B carboxylesterase/lipase family, is a synaptic cell-adhesion molecule that is enriched in postsynaptic densities where it may recruit receptors, channels, and signal-transduction molecules to synaptic sites of cell adhesion. |

Target Details

Neuroligins consist of five members (NLGN1, NLGN2, NLGN3, NLGN4 and NLGN4Y), which interact with beta-neurexins and this interaction is involved in the formation of functional synapses. The extracellular domain of functional Neuroligin 1 associates as a dimer when analyzed by sedimentation equilibrium. Neuroligin 1 has a unique N-linked glycosylation pattern in the neuroligin family, and glycosylation and its processing modify neuroligin activity. Neuroligin 1 is a potent trigger for the de novo formation of synaptic connections, and it has recently been suggested that it is required for the maturation of functionally competent excitatory synapses. The persistent expression of Neuroligin 1 is required for the maintenance of NMDAR-mediated synaptic transmission, which enables normal development of synaptic plasticity and long-term memory in the amygdala of adult animals.

Synonym: 6330415N05Rik,BB179718,mKIAA1070,NL1,Nlg1

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| Molecular Weight: | 73.5 kDa |
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| Pathways: | Synaptic Membrane , Synaptic Vesicle Exocytosis |
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Application Details

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| Restrictions: | For Research Use only |
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Handling

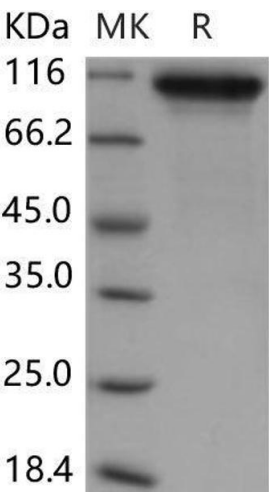
| | |
|---------|-------------|
| Format: | Lyophilized |
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| Reconstitution: | Please refer to the printed manual for detailed information. |
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| Buffer: | Lyophilized from sterile PBS, pH 7.4 |
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| Storage: | 4 °C,-20 °C,-80 °C |
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| Storage Comment: | Generally, 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. |
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Western Blotting

Image 1.