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Datasheet for ABIN7557759

NSG1 Protein (AA 1-185) (His tag)

Overview

Quantity:	1 mg
Target:	NSG1 (D4S234E)
Protein Characteristics:	AA 1-185
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NSG1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Nsg1 Protein expressed in mammalian cells.
Sequence:	MVKLGNNFAE KGTKQPLLED GFDTIPLMTP LDVNQLQFPP PDKVVVKTKT EYEPDRKKGK ARPPKIAEFT VSITEGVTER FKVSVLVLFALFLTCVVFL VYKVKYKYDR ACPDGFVLKN TQCIPEGLES YYTEQDSSAR EKFYTVINHY NVAKQSITRS VSPWMSVLSE EKLSEQETEA AEKSA Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and

Product Details

transmembrane proteins.

- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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Target Details

Target:	NSG1 (D4S234E)
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Alternative Name:	Nsg1 (D4S234E Products)
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Background:	<p>Neuronal vesicle trafficking-associated protein 1 (M234) (Neuron-enriched endosomal protein of 21 kDa) (Neuron-specific protein family member 1) (p21),FUNCTION: Plays a role in the recycling mechanism in neurons of multiple receptors, including AMPAR, APP and L1CAM and acts at the level of early endosomes to promote sorting of receptors toward a recycling pathway (PubMed:15187090, PubMed:12070131, PubMed:21084623, PubMed:16037816). Regulates sorting and recycling of GRIA2 through interaction with GRIP1 and then contributes to the regulation of synaptic transmission and plasticity by affecting the recycling and targeting of AMPA receptors to the synapse (PubMed:16037816). Is required for faithful sorting of L1CAM to axons by facilitating trafficking from somatodendritic early endosome or the recycling endosome (By similarity). In an other hand, induces apoptosis via the activation of CASP3 in response to DNA damage (By similarity). {ECO:0000250 UniProtKB:P02683, ECO:0000250 UniProtKB:P42857, ECO:0000269 PubMed:12070131, ECO:0000269 PubMed:15187090, ECO:0000269 PubMed:16037816, ECO:0000269 PubMed:21084623}.</p>
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Molecular Weight:	20.9 kDa
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UniProt:	Q62092
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Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months
