

Datasheet for ABIN7549836
NMRAL1 Protein (AA 1-299) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	NMRAL1
Protein Characteristics:	AA 1-299
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NMRAL1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant NMRAL1 Protein expressed in mammalian cells.
Sequence:	<p>MVDKKLWVVF GGTGAQGGSV ARTLLEDGTF KVRVVTRNPR KKAAKELRLQ GAEVVQGDQD DQVIMELALN GAYATFIVTN YWESCSQEQE VKQGKLLADL ARRLGLHYVW YSGLENIKKL TAGRLAAAHF DGKGEVEEYF RDIGVPM TSV RLPCYFENLL SHFLPQKAPD GKS YLLSLPT GDVPM DGMSV SDLGPV VLSL LKMPEKYVGQ NIGLSTCRHT AEEYAALLTK HTRKVVHDAK MTPEDYEKLG FPGARDLANM FRFYALRPDR DIELTLRLNP KALTLDQWLE QHKGDFNLL</p> <p>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.</p>
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:

Product Details

- 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 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)
Grade:	custom-made

Target Details

Target:	NMRAL1
Alternative Name:	NMRAL1 (NMRAL1 Products)
Background:	NmrA-like family domain-containing protein 1,FUNCTION: Redox sensor protein. Undergoes restructuring and subcellular redistribution in response to changes in intracellular NADPH/NADP(+) levels. At low NADPH concentrations the protein is found mainly as a monomer, and binds argininosuccinate synthase (ASS1), the enzyme involved in nitric oxide synthesis. Association with ASS1 impairs its activity and reduces the production of nitric oxide, which subsequently prevents apoptosis. Under normal NADPH concentrations, the protein is found as a dimer and hides the binding site for ASS1. The homodimer binds one molecule of NADPH. Has higher affinity for NADPH than for NADP(+). Binding to NADPH is necessary to form a stable dimer. {ECO:0000269 PubMed:17496144, ECO:0000269 PubMed:18263583, ECO:0000269 PubMed:19254724}.
Molecular Weight:	33.3 kDa
UniProt:	Q9HBL8

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
