

Datasheet for ABIN7557960
MREG Protein (AA 1-214) (His tag)



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Overview

Quantity:	1 mg
Target:	MREG
Protein Characteristics:	AA 1-214
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MREG protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Mreg Protein expressed in mammalian cells.
Sequence:	MGLRRWL RSA CCCCPCRCLE EPARPEKEPL VSGNNPYSSF GATLERDDEK NLWSMPHDVS HTEADDDRIL YNLIVIRNQQ TKDSEEWQRL NYDIYTLRQI RREVRNRWRR ILEDLGFQRE ADSLLSVTKL STMSDSKNTR KAREMLLKLA EETSIFPASW ELSERYLLVV DRLIALDAAE DFFKIASQMY PCKPGVPCLV DGQRKHLHCLP FPSP 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.

Product Details

- 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:	MREG
Alternative Name:	Mreg (MREG Products)
Background:	Melanoregulin (Dilute suppressor protein) (Whn-dependent transcript 2),FUNCTION: Probably functions as a cargo-recognition protein that couples cytoplasmic vesicles to the transport machinery (PubMed:22940130, PubMed:22275436, PubMed:30174147). Plays a role in hair pigmentation, a process that involves shedding of melanosome-containing vesicles from melanocytes, followed by phagocytosis of the melanosome-containing vesicles by keratinocytes (PubMed:15550542, PubMed:3410303, PubMed:22753477). Functions on melanosomes as receptor for RILP and the complex formed by RILP and DCTN1, and thereby contributes to retrograde melanosome transport from the cell periphery to the center (PubMed:22940130, PubMed:22275436). Overexpression causes accumulation of late endosomes and/or lysosomes at the microtubule organising center (MTOC) at the center of the cell (PubMed:19240024, PubMed:30174147). Probably binds cholesterol and requires the presence of cholesterol in membranes to function in microtubule-mediated retrograde organelle transport (PubMed:30174147). Binds phosphatidylinositol 3-phosphate, phosphatidylinositol 4-phosphate, phosphatidylinositol 5-phosphate and phosphatidylinositol 3,5-bisphosphate, but not phosphatidylinositol 3,4-bisphosphate or phosphatidylinositol 4,5-

Target Details

bisphosphate (PubMed:19240024). Required for normal phagosome clearing and normal activation of lysosomal enzymes in lysosomes from retinal pigment epithelium cells (PubMed:19240024). Required for normal degradation of the lipofuscin component N-retinylidene-N-retinylethanolamine (A2E) in the eye (PubMed:19240024). May function in membrane fusion and regulate the biogenesis of disk membranes of photoreceptor rod cells (Probable). {ECO:0000269|PubMed:15550542, ECO:0000269|PubMed:19240024, ECO:0000269|PubMed:22275436, ECO:0000269|PubMed:22753477, ECO:0000269|PubMed:22940130, ECO:0000269|PubMed:30174147, ECO:0000269|PubMed:3410303, ECO:0000305|PubMed:17260955}.

Molecular Weight: 25.0 kDa

UniProt: [Q6NVG5](#)

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