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Datasheet for ABIN7562646 **RRAD Protein (AA 1-308) (His tag)**

Overview

Quantity:	1 mg
Target:	RRAD
Protein Characteristics:	AA 1-308
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RRAD protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Rrad Protein expressed in mammalian cells.
Sequence:	MTLNGGSGAS GSRGAGGRER DRRRGSTPWG PAPPLHRRSM PVDERDLQAA LAPGSLATTA AGTRTQGQRL DWPEGSSDSL SSGGSGSEEG VYKVLGAP GVGKSALARI FGGIEDGPEA EAAGHTYDRS ITVDGEEASL LVYDIWEEDG GCWLPGHGMA MGDAYVIVYS ITDKGSFEKA SELRVQLRRA RQTDDVPIIL VGNKSDLVRS REVSVDGRA CAVVFDCKFI ETSAAALHHNV QALFEGVVRQ IRLRRDSKED NARRQAGTRR RESLGKKAKR FLGRIVARNS RKMAFRAKSK SCHDLSVL 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:

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)
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Grade:	custom-made
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Target Details

Target:	RRAD
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Alternative Name:	Rad (RRAD Products)
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Background:	GTP-binding protein RAD,FUNCTION: May regulate basal voltage-dependent L-type Ca(2+) currents and be required for beta-adrenergic augmentation of Ca(2+) influx in cardiomyocytes, thereby regulating increases in heart rate and contractile force (PubMed:36424916). May play an important role in cardiac antiarrhythmia via the strong suppression of voltage-dependent L-type Ca(2+) currents (PubMed:17525370). Regulates voltage-gated L-type calcium channel subunit alpha-1C trafficking to the cell membrane (PubMed:17525370). Inhibits cardiac hypertrophy through the calmodulin-dependent kinase II (CaMKII) pathway (PubMed:18056528). Inhibits phosphorylation and activation of CAMK2D (By similarity). {ECO:0000250 UniProtKB:P55042, ECO:0000269 PubMed:17525370, ECO:0000269 PubMed:18056528, ECO:0000269 PubMed:36424916}.
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Molecular Weight:	33.3 kDa
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UniProt:	O88667
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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
