

Datasheet for ABIN7558834
RD3 Protein (AA 1-195) (His tag)



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Overview

Quantity:	1 mg
Target:	RD3
Protein Characteristics:	AA 1-195
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RD3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Rd3 Protein expressed in mammalian cells.
Sequence:	MSLIPWLRWN DTPPRLSART PAEMVLETLM MELAGQMREV ERQQRERRSA VRKICTGVDY SWLANTPRPT YDISPGERLQ LEDVCAKIHP SYCGPAILRF RQLLAEREPE VQEVARLFPS VLQEALEKMK QEEEEAHKLTR QWSLRPRGSL SSFKTRARIA PFASDIRTIS EDVERDAPPP PRTWSMPEFR APQAD 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:	RD3
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Alternative Name:	Rd3 (RD3 Products)
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Background:	Protein RD3 (Retinal degeneration protein 3),FUNCTION: Plays a critical role in the regulation of enzymes involved in nucleotide cycle in photoreceptors (PubMed:21078983, PubMed:27471269). Inhibits the basal catalytic activity and the GCAP-stimulated activity of GUCY2E and GUCY2F, two retinal guanylyl cyclases involved in the production of cGMP in photoreceptors (PubMed:27471269). Involved in the transport of GUCY2E and GUCY2F to their target sites in the photoreceptor outer segment (PubMed:21078983). Up-regulates the activity of GUK1, a kinase that also plays an essential role for recycling GMP and indirectly, cGMP (By similarity). Plays an important role for the survival of rods and cones in the retina (PubMed:8486383, PubMed:17186464). {ECO:0000250 UniProtKB:Q7Z3Z2, ECO:0000269 PubMed:17186464, ECO:0000269 PubMed:21078983, ECO:0000269 PubMed:27471269, ECO:0000269 PubMed:8486383}.
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Molecular Weight:	22.7 kDa
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UniProt:	Q8BRE0
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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
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Application Details

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
