Datasheet for ABIN7554467

MACROD1 Protein (AA 1-325) (His tag)

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Overview

Quantity:	1 mg
Target:	MACROD1
Protein Characteristics:	AA 1-325
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MACROD1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant MACROD1 Protein expressed in mammalian cells.
Sequence:	MSLQSRLSGR LAQLRAAGQL LVPPRPRPGH LAGATRTRSS TCGPPAFLGV FGRRARTSAG VGAWGAAAVG RTAGVRTWAP LAMAAKVDLS TSTDWKEAKS FLKGLSDKQR EEHYFCKDFV RLKKIPTWKE MAKGVAVKVE EPRYKKDKQL NEKISLLRSD ITKLEVDAIV NAANSSLLGG GGVDGCIHRA AGPLLTDECR TLQSCKTGKA KITGGYRLPA KYVIHTVGPI AYGEPSASQA AELRSCYLSS LDLLLEHRLR SVAFPCISTG VFGYPCEAAA EIVLATLREW LEQHKDKVDR LIICVFLEKD EDIYRSRLPH YFPVA **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)
Grade:	custom-made

Target Details

Target:	MACROD1
Alternative Name:	MACROD1 (MACROD1 Products)
Background:	ADP-ribose glycohydrolase MACROD1 (MACRO domain-containing protein 1) (O-acetyl-ADP-ribose deacetylase MACROD1) (EC 3.1.1.106) (Protein LRP16) ([Protein ADP-ribosylaspartate] hydrolase MACROD1) (EC 3.2.2.-) ([Protein ADP-ribosylglutamate] hydrolase MACROD1) (EC 3.2.2.-),FUNCTION: Removes ADP-ribose from aspartate and glutamate residues in proteins bearing a single ADP-ribose moiety (PubMed:23474714, PubMed:23474712). Inactive towards proteins bearing poly-ADP-ribose (PubMed:23474714, PubMed:23474712). Deacetylates O-acetyl-ADP ribose, a signaling molecule generated by the deacetylation of acetylated lysine residues in histones and other proteins (PubMed:21257746). Plays a role in estrogen signaling (PubMed:17893710, PubMed:17914104, PubMed:19403568). Binds to androgen receptor (AR) and amplifies the transactivation function of AR in response to androgen (PubMed:19022849). May play an important role in carcinogenesis and/or progression of hormone-dependent cancers by feed-forward mechanism that activates ESR1 transactivation (PubMed:17893710, PubMed:17914104). Could be an ESR1 coactivator, providing a positive feedback regulatory loop for ESR1 signal transduction (PubMed:17914104). Could be involved in invasive growth by

Target Details

	down-regulating CDH1 in endometrial cancer cells (PubMed:17893710). Enhances ESR1-mediated transcription activity (PubMed:17914104). {ECO:0000269|PubMed:17893710, ECO:0000269|PubMed:17914104, ECO:0000269|PubMed:19022849, ECO:0000269|PubMed:19403568, ECO:0000269|PubMed:21257746, ECO:0000269|PubMed:23474712, ECO:0000269|PubMed:23474714}.
Molecular Weight:	35.5 kDa
UniProt:	Q9BQ69

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