Datasheet for ABIN7558054

ADO Protein (AA 1-256) (His tag)

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Overview

Quantity:	1 mg
Target:	ADO
Protein Characteristics:	AA 1-256
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADO protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Ado Protein expressed in mammalien cells.
Sequence:	MPRDNMASLI QRIARQACLT FRGSSTGSEG PAPGFPENLS LLKSLLTQVR AEDLNIAPRK ALPQPLPRNL PPVTYMHIYE TEGFSLGVFL LKSGTCIPLH DHPGMHGMLK VLYGTVRISC MDKLDTGAGH RRPPPEQQFE PPLQPLEREA VRPGVLRSRA EYTEASGPCV LTPHRDNLHQ IDAVDGPAAF LDILAPPYDP EDGRDCHYYR VVEPIRPKEA SGSACDLPRE VWLLETPQAD DFWCEGEPYP GPKVLP **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.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	ADO
Alternative Name:	Ado (ADO Products)
Background:	2-aminoethanethiol dioxygenase (EC 1.13.11.19) (Cysteamine dioxygenase),FUNCTION: Plays a vital role in regulating thiol metabolism and preserving oxygen homeostasis by oxidizing the sulfur of cysteamine and N-terminal cysteine-containing proteins to their corresponding sulfinic acids using O2 as a cosubstrate (PubMed:17581819, PubMed:32601061). Catalyzes the oxidation of cysteamine (2-aminoethanethiol) to hypotaurine (PubMed:17581819, PubMed:32601061). Catalyzes the oxidation of the regulator of G-protein signaling 5 (RGS5) (PubMed:32601061). Also oxidizes proteins RGS4 and interleukin-32 (IL32) (By similarity). {ECO:0000250|UniProtKB:Q96SZ5, ECO:0000269|PubMed:17581819, ECO:0000269|PubMed:32601061}.
Molecular Weight:	28.4 kDa
UniProt:	Q6PDY2

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Application Details

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

