antibodies

Datasheet for ABIN3123310 CYP24A1 Protein (AA 36-514) (His tag)





Overview

Quantity:	1 mg
Target:	CYP24A1
Protein Characteristics:	AA 36-514
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP24A1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	RAPKEVPLCP LMTDGETRNV TSLPGPTNWP LLGSLLEIFW KGGLKKQHDT LAEYHKKYGQ
	IFRMKLGSFD SVHLGSPSLL EALYRTESAH PQRLEIKPWK AYRDHRNEAY GLMILEGQEW
	QRVRSAFQKK LMKPVEIMKL DKKINEVLAD FMGQIDELRD ERGRIQDLYS ELNKWSFESI
	CLVLYEKRFG LLQKDTEEEA LTFIAAIKTM MSTFGKMMVT PVELHKRLNT KVWQAHTLAW
	DTIFKSVKPC IDHRLERYSQ QPGADFLCDI YQQDHLSKKE LYAAVTELQL AAVETTANSL
	MWILYNLSRN PQVQQRLLRE IQSVLPDNQT PRAEDVRNMP YLKACLKESM RLTPSVPFTT
	RTLDKPTVLG EYTLPKGTVL TLNTQVLGSS EDNFEDADKF RPERWLEKEK KINPFAHLPF
	GVGKRMCIGR RLAELQLHLA LCWIIQKYNI VATDSEPVEM LHLGILVPSR ELPIAFCPR
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Cyp24a1 Protein (raised in Insect Cells) purified by multi-step, protein-specific

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process to ensure crystallization grade.

• 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 will ensure that you receive a correctly folded protein.
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three
	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate
	fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step
	through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and
	Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade
Target Details	
Target:	CYP24A1
Alternative Name:	Cyp24a1 (CYP24A1 Products)

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Target Details	
Background:	Has a role in maintaining calcium homeostasis. Catalyzes the NADPH-dependent 24- hydroxylation of calcidiol (25-hydroxyvitamin D(3)) and calcitriol (1-alpha,25-dihydroxyvitamin D(3)). The enzyme can perform up to 6 rounds of hydroxylation of calcitriol leading to calcitroic acid. {ECO:0000250 UniProtKB:Q09128}.
Molecular Weight:	56.4 kDa Including tag.
UniProt:	Q64441
Pathways:	Metabolism of Steroid Hormones and Vitamin D
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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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