antibodies

Datasheet for ABIN3112907 HSD3B1 Protein (AA 2-373) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	HSD3B1
Protein Characteristics:	AA 2-373
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSD3B1 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	TGWSCLVTGA GGFLGQRIIR LLVKEKELKE IRVLDKAFGP ELREEFSKLQ NKTKLTVLEG
	DILDEPFLKR ACQDVSVIIH TACIIDVFGV THRESIMNVN VKGTQLLLEA CVQASVPVFI
	YTSSIEVAGP NSYKEIIQNG HEEEPLENTW PAPYPHSKKL AEKAVLAANG WNLKNGGTLY
	TCALRPMYIY GEGSRFLSAS INEALNNNGI LSSVGKFSTV NPVYVGNVAW AHILALRALQ
	DPKKAPSIRG QFYYISDDTP HQSYDNLNYT LSKEFGLRLD SRWSFPLSLM YWIGFLLEIV
	SFLLRPIYTY RPPFNRHIVT LSNSVFTFSY KKAQRDLAYK PLYSWEEAKQ KTVEWVGSLV
	DRHKETLKSK TQ
	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. Human HSD3B1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

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	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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect
	cells:
	 Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
	2. The best performing detergent is used for solubilization and the proteins are purified via their
	rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
	3. Protein containing fractions of the best purification are subjected to second purification step
	through size exclusion chromatograph. 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

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Target Details

Target:	HSD3B1
Alternative Name:	HSD3B1 (HSD3B1 Products)
Background:	3-beta-HSD is a bifunctional enzyme, that catalyzes the oxidative conversion of Delta(5)-ene-3-
	beta-hydroxy steroid, and the oxidative conversion of ketosteroids. The 3-beta-HSD enzymatic
	system plays a crucial role in the biosynthesis of all classes of hormonal steroids. Efficiently
	catalyzes the transformation of pregnenolone to progesterone, 17-alpha-hydroxypregnenolone
	to 17-alpha-hydroxyprogesterone, DHEA to 4-androstenedione, dihydrotestosterone to 5-alpha-
	androstane-3 beta,17 beta-diol, dehydroepiandrosterone to androstenedione and 5-alpha-
	androstan-3 beta,17 beta-diol to 5-alpha-dihydrotestosterone. {ECO:0000269 PubMed:1401999,
	ECO:0000269 PubMed:2139411}.
Molecular Weight:	43.3 kDa Including tag.
UniProt:	P14060
Pathways:	Metabolism of Steroid Hormones and Vitamin D, Steroid Hormone Biosynthesis, C21-Steroid
	Hormone Metabolic Process, Carbohydrate Homeostasis
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.
	5 5

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.

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Handling
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Expiry Date:

Unlimited (if stored properly)

Images



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

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