antibodies

Datasheet for ABIN3085728 Thyroperoxidase Protein (AA 19-846) (His tag)





Overview

Quantity:	1 mg
Target:	Thyroperoxidase (TPO)
Protein Characteristics:	AA 19-846
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Thyroperoxidase protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	FFPFISRGKE LLWGKPEESR VSSVLEESKR LVDTAMYATM QRNLKKRGIL SPAQLLSFSK
	LPEPTSGVIA RAAEIMETSI QAMKRKVNLK TQQSQHPTDA LSEDLLSIIA NMSGCLPYML
	PPKCPNTCLA NKYRPITGAC NNRDHPRWGA SNTALARWLP PVYEDGFSQP RGWNPGFLYN
	GFPLPPVREV TRHVIQVSNE VVTDDDRYSD LLMAWGQYID HDIAFTPQST SKAAFGGGAD
	CQMTCENQNP CFPIQLPEEA RPAAGTACLP FYRSSAACGT GDQGALFGNL STANPRQQMN
	GLTSFLDAST VYGSSPALER QLRNWTSAEG LLRVHARLRD SGRAYLPFVP PRAPAACAPE
	PGIPGETRGP CFLAGDGRAS EVPSLTALHT LWLREHNRLA AALKALNAHW SADAVYQEAR
	KVVGALHQII TLRDYIPRIL GPEAFQQYVG PYEGYDSTAN PTVSNVFSTA AFRFGHATIH
	PLVRRLDASF QEHPDLPGLW LHQAFFSPWT LLRGGGLDPL IRGLLARPAK LQVQDQLMNE
	ELTERLFVLS NSSTLDLASI NLQRGRDHGL PGYNEWREFC GLPRLETPAD LSTAIASRSV
	ADKILDLYKH PDNIDVWLGG LAENFLPRAR TGPLFACLIG KQMKALRDGD WFWWENSHVF
	TDAQRRELEK HSLSRVICDN TGLTRVPMDA FQVGKFPEDF ESCDSITGMN LEAWRETFPQ

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3085728 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	DDKCGFPESV ENGDFVHCEE SGRRVLVYSC RHGYELQGRE QLTCTQEGWD FQPPLCKDVN
	ECADGAHPPC HASARCRNTK GGFQCLCADP YELGDDGRTC VDSGRLPR
	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 TPO Protein (raised in Insect Cells) purified by multi-step, protein-specific 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:
	 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. 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.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3085728 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Product Details

Grade:

Crystallography grade

Target Details

Target:	Thyroperoxidase (TPO)
Alternative Name:	Thyroid Peroxidase (TPO Products)
Background:	lodination and coupling of the hormonogenic tyrosines in thyroglobulin to yield the thyroid hormones T(3) and T(4).
Molecular Weight:	92.9 kDa Including tag.
UniProt:	P07202
Pathways:	Thyroid Hormone Synthesis
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.
Comment:	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)

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3085728 | 09/11/2023 | Copyright antibodies-online. All rights reserved.



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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN3085728 | 09/11/2023 | Copyright antibodies-online. All rights reserved.