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Datasheet for ABIN3096185

UGGT1 Protein (AA 43-1555) (His tag)

Overview

Quantity:	1 mg
Target:	UGGT1
Protein Characteristics:	AA 43-1555
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This UGGT1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	<p>DSKAITTSLT TKWFSTPLLL EASEFLAEDS QEKFWNFVEA SQNIGSSDHD GTDYSYYHAI</p> <p>LEAAFQFLSP LQQNLFKFCL SLRSYSATIQ AFQQIAADep PPEGCNSFFS VHGGKTCESD</p> <p>TLEALLLTAS ERPKPLLFKG DHRYPSSNPE SPVIFYSEI GSEEFNSFHR QLISKSNAGK</p> <p>INYVFRHYIF NPRKEPVYLS GYGVELAIKS TEYKAKDDTQ VKGTEVNTTV IGENDPIDEV</p> <p>QGFLFGKLRD LHPDLEGQLK ELRKHLVEST NEMAPLKVWQ LQDLSFQTAA RILASPVELA</p> <p>LVVMKDLSQN FPTKARAITK TAVSSELSTE VEENQKYFKG TLGLQPGDSA LFINGLHMDL</p> <p>DTQDIFSLFD VLRNEARVME GLHRLGIEGL SLHNVKLNI QPSEADYAVD IRSPAISWVN</p> <p>NLEVDSRYNS WPSSLQELLR PTFPGVIRQI RKNLHNMVFI VDKPAHETTAE LMNTAEMFLS</p> <p>NHIPLRIGFI FVNDSEDVD GMQDAGVAVL RAYNYVAQEV DDYHAFQTLT HIYNKVRTGE</p> <p>KVKVEHVVSF LEKKYPYVEV NSILGIDSAY DRNRKEARGY YEQTGVGPLP VVLFNGMPFE</p> <p>REQLDPDELE TITMHKILET TTFQRAVYL GELPHDQDVV EYIMNQPNVV PRINSRILTA</p> <p>ERDYDLTAS NNFFVDDYAR FTILDSQGKT AAVANSMMNYL TTKGMSSKEI YDDSFIRPVT</p>
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FWIVGDFDSP SGRQLLYDAI KHQKSSNNVR ISMINNPAKE ISYENTQISR AIWAALQTQT
SNAAKNFITK MAKEGAAEAL AAGADIAEFS VGGMDFSLFK EVFESSKMDF ILSHAVYCRD
VLKLLKKQRA VISNGRIIGP LEDSELFNQD DFHLLNIIL KTSGQKIKSH IQQLRVEEDV
ASDLVMKVDA LLSAQPKGDP RIEYQFFEDR HSAIKLRPKE GETYFDVVAV VDPVTREAQR
LAPLLLVL AQ LINMNL RVFM NCQSKLSDMP LKSFYRYVLE PEISFTSDNS FAKGPIAKFL
DMPQSPFLTL NLNTPESWMV ESVRTPYDLD NIYLEEVDSV VAAEYELEYL LLEGHCYDIT
TGQPPRGLQF TLGTSANPVI VDTIVMANLG YFQLKANPGA WILRLRKGRS EDIYRIYSHD
GTDSPDADE VVIVLNNFKS KIIKVKVQKK ADMVNEDLLS DGTSENESEGF WDSFKWGFTG
QKTEEVKQDK DDIINIFSA SGHLYERFLR IMMLSVLKNT KTPVKFWFLK NYLSPTFKEF
IPYMANEYNF QYELVQYKWP RWLHQQTEKQ RIIWGYKILF LDVLFPLVVD KFLFVDADQI
VRTDLKELRD FNLDGAPYGY TPFCD SRREM DGYRFWKSGY WASHLAGRKY HISALYVVDL
KKFRKIAAGD RLRGQYQGLS QDPNSLSNLD QDLPNNMIHQ VPIKSLPQEW LWCETWCDDA
SKKRAKTIDL CNNPMTKEPK LEAAVRIVPE WQDYDQEIKQ LQIRFQKEKE TGALYKEKTK
EPSREGPQKR EEL

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 UGGT1 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 receipt 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.

Product Details

	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:	<p>Two step purification of proteins expressed in baculovirus infected SF9 insect cells:</p> <ol style="list-style-type: none">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:	UGGT1
Alternative Name:	UGGT1 (UGGT1 Products)
Background:	Recognizes glycoproteins with minor folding defects. Reglucosylates single N-glycans near the misfolded part of the protein, thus providing quality control for protein folding in the endoplasmic reticulum. Reglucosylated proteins are recognized by calreticulin for recycling to the endoplasmic reticulum and refolding or degradation. {ECO:0000269 PubMed:10694380}.
Molecular Weight:	174.0 kDa Including tag.
UniProt:	Q9NYU2
Pathways:	Activation of Innate immune Response

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

Application Details

	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)