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Datasheet for ABIN3079544 ELFN1 Protein (AA 28-418) (His tag)

Image



Overview

Quantity:	1 mg
Target:	ELFN1
Protein Characteristics:	AA 28-418
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ELFN1 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	DCWLIEGDKG FVWLAICSQN QPPYEAIPQQ INSTIVDLRL NENRIRSVQY ASLSRFGNLT
	YLNLTKNEIG YIEDGAFSGQ FNLQVLQLGY NRLRNLTEGM LRGLGKLEYL YLQANLIEVV
	MASSFWECPN IVNIDLSMNR IQQLNSGTFA GLAKLSVCEL YSNPFYCSCE LLGFLRWLAA
	FTNATQTYDR MQCESPPVYS GYYLLGQGRR GHRSILSKLQ SVCTEDSYAA EVVGPPRPAS
	GRSQPGRSPP PPPPPEPSDM PCADDECFSG DGTTPLVALP TLATQAEARP LIKVKQLTQN
	SATITVQLPS PFHRMYTLEH FNNSKASTVS RLTKAQEEIR LTNLFTLTNY TYCVVSTSAG
	LRHNHTCLTI CLPRLPSPPG PVPSPSTATH Y
	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 ELFN1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

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Purification: This protein is a made to order pretein 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 unifiedy 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 process for custom-made proteins, e.g. fees might apply for the expression process for custom-made proteins, e.g. fees might apply for the expression process for custom-made proteins, e.g. fees might apply for the expression process for custom-made proteins or purification of our 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. Purification: Two step purification of proteins expressed in baculovirus infected SF9 insect cells: Purification: 1 in a first purification step, the protein is purification are subjected to second purification step through size exclusion chromatography. Elude fractions are analyzed by SDS-PAGE Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Sterlity: 0.22 µm filtered Eraget Detail		State-of-the-art algorithm used for plasmid design (Gene synthesis).
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 experimenced 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 Expass's protearam tool to determine the absorption coefficient of each protein.Purification.Two step purification step, the protein is purified from the cleared cell ysate using three different His tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGEPurify:>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.Sterility:0.22 µm filteredEndotoxin Level:Protein is endotxin free.Grade:Crystallography gradeTarget DetailisELFN1		This protein is a made to order protein and will be made for the first time for your order. Our
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Target Details Target: ELFN1	Endotoxin Level:	Protein is endotoxin free.
Target: ELFN1	Grade:	Crystallography grade
Target: ELFN1		
	Target Details	
Alternative Name: ELFN1 (ELFN1 Products)	Target:	ELFN1
	Alternative Name:	ELFN1 (ELFN1 Products)

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Target Details	
Background:	Postsynaptic protein that regulates circuit dynamics in the central nervous system by modulating the temporal dynamics of interneuron recruitment. Specifically present in excitatory synapses onto oriens-lacunosum molecular (OLM) interneurons and acts as a regulator of presynaptic release probability to direct the formation of highly facilitating pyramidal-OLM synapses (By similarity). Inhibits phosphatase activity of protein phosphatase 1 (PP1) complexes. {ECO:0000250, ECO:0000269 PubMed:19389623}.
Molecular Weight:	44.4 kDa Including tag.
UniProt:	P0C7U0
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)

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

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