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ODZ1/Teneurin 1 Protein (AA 2596-2725) (rho-1D4 tag)



Image



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Overview	
Quantity:	1 mg
Target:	ODZ1/Teneurin 1 (TENM1)
Protein Characteristics:	AA 2596-2725
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ODZ1/Teneurin 1 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)
Product Details	
Sequence:	ILENGVNVTV SQMTSVLNGR TRRFADIQLQ HGALCFNIRY GTTVEEEKNH VLEIARQRAV
	AQAWTKEQRR LQEGEEGIRA WTEGEKQQLL STGRVQGYDG YFVLSVEQYL ELSDSANNIH
	FMRQSEIGRR
	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 TENM1 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.

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:

- 1. 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.
- 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

Target Details

Target:	ODZ1/Teneurin 1 (TENM1)
Alternative Name:	TENM1 (TENM1 Products)
Background:	Involved in neural development, regulating the establishment of proper connectivity within the
	nervous system. May function as a cellular signal transducer (By similarity). {ECO:0000250}.,

Teneurin C-terminal-associated peptide: Plays a role in the regulation of neuroplasticity in the
limbic system. Mediates a rapid reorganization of actin- and tubulin-based cytoskeleton
elements with an increase in dendritic arborization and spine density formation of neurons in
the hippocampus and amygdala. Induces BDNF transcription inhibition in neurons. Activates
the mitogen-activated protein (MAP) kinase 2 (MEK2) and extracellular signal-regulated kinase
(ERK) cascade. Acts also as a bioactive neuroprotective peptide on limbic neurons of the brain
and regulates stress-induced behavior: attenuates alkalosis-associated necrotic cell death and
the effects of corticotropin-releasing factor (CRF) on c-fos/FOS induction and on the
reinstatement of cocaine seeking (By similarity). {ECO:0000250}., Ten-1 intracellular domain:
Induces gene transcription activation. {ECO:0000250}.

Molecular Weight:	16.1 kDa Including tag.	
UniProt:	Q9UKZ4	
Pathways:	Regulation of Actin Filament Polymerization	

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:	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)

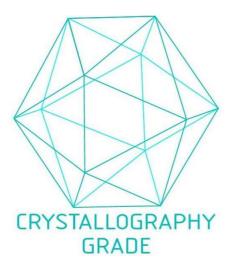


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process