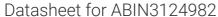
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TRPA1 Protein (AA 960-1125) (His tag)



Image



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Quantity:	1 mg
Target:	TRPA1
Protein Characteristics:	AA 960-1125
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRPA1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
Product Details	
Sequence:	IGLAVGDIAE VQKHASLKRI AMQVELHTNL EKKLPLWYLR KVDQRSTIVY PNRPRHGRML
	RFFHYFLNMQ ETRQEVPNID TCLEMEILKQ KYRLKDLTSL LEKQHELIKL IIQKMEIISE
	TEDEDNHCSF QDRFKKERLE QMHSKWNFVL NAVKTKTHCS ISHPDF
	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. Mouse Trpa1 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 protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

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:

- 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:	TRPA1	
Alternative Name:	Trpa1 (TRPA1 Products)	
Background:	Receptor-activated non-selective cation channel involved in detection of pain and possibly also	
	in cold perception and inner ear function. Has a central role in the pain response to endogenous	
	inflammatory mediators and to a diverse array of volatile irritants, such as mustard oil,	
	cinnamaldehyde, garlic and acrolein, an irritant from tears gas and vehicule exhaust fumes.	

Acts also as a ionotropic cannabinoid receptor by being activated by delta(9)-tetrahydrocannabinol (THC), the psychoactive component of marijuana. Is also activated by menthol (in vitro) (By similarity). May be a component for the mechanosensitive transduction channel of hair cells in inner ear, thereby participating in the perception of sounds. Probably operated by a phosphatidylinositol second messenger system.

{ECO:0000250|UniProtKB:075762, ECO:0000269|PubMed:12654248, ECO:0000269|PubMed:15046718, ECO:0000269|PubMed:15483558, ECO:0000269|PubMed:15843607, ECO:0000269|PubMed:16564016}.

Molecular Weight:

20.9 kDa Including tag.

UniProt:

O8BLA8

Application Details

Commont:	Protoin has not been tested for activity yet. In eaces in which it is highly likely that the
	though.
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

Comment:

Protein has not been tested for activity yet. 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