

Datasheet for ABIN3133862

Ret Proto-Oncogene Protein (RET) (AA 29-637) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	Ret Proto-Oncogene (RET)
Protein Characteristics:	AA 29-637
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Ret Proto-Oncogene protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	LYFSRDAYWE RLYVDQPAGT PLLYVHALRD APGEVPSFRL GQHLYGVYRT RLHENDWIRI NETTGLLYLN QSLDHSSWEQ LSIRNGGFPL LTIFLQVFLG STAQREGECH WPGCTRVYFS FINDTFPNCS SFKAQDLCIP ETAVSFRVRE NRPPGTFYHF HMLPVQFLCP NISVKYSLLG GDSLPRFCDP DCLEVSTRWA LDRELREKYV LEALCIVAGP GANKETVTLN FPVTVYDEDD SAPTFSGGVG TASAVVEFKR KEGTVVATLQ VFDADVVPAS GELVRRYTNT LLSGDSWAQQ TFRVEHSPIE TLVQVNNNSV RATMHNKLI LNRSLSISES RVLQLAVLVN DSDFQGPAG GILVLHFNVS VLPVTNLNPR AYSFPVNKRA RRYAQIGKVC VENCQEFSGV SIQYKLQPSS INCTALGVVT SPEDTSGTLF VNDTEALRRP ECTKLQYTVV ATDRQTRRQT QASLVVTVEG TSITEEVGCP KSCAVNKRRP ECEECGGLGS PTGRCEWRQG DGKGITRNFs TCSPSTRTCP DGHCDAVESR DANICPDCL RADIVGGHER GERQGIKAGY GICNCFPDEK KCFCEPEDSQ GPLCDALCR
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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 Ret 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.

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:	Ret Proto-Oncogene (RET)
Alternative Name:	Ret (RET Products)
Background:	<p>Receptor tyrosine-protein kinase involved in numerous cellular mechanisms including cell proliferation, neuronal navigation, cell migration, and cell differentiation upon binding with glial cell derived neurotrophic factor family ligands. Phosphorylates PTK2/FAK1. Regulates both cell death/survival balance and positional information. Required for the molecular mechanisms orchestration during intestine organogenesis, involved in the development of enteric nervous system and renal organogenesis during embryonic life, and promotes the formation of Peyer's patch-like structures, a major component of the gut-associated lymphoid tissue. Modulates cell adhesion via its cleavage by caspase in sympathetic neurons and mediates cell migration in an integrin (e.g. ITGB1 and ITGB3)-dependent manner. Involved in the development of the neural crest. Active in the absence of ligand, triggering apoptosis through a mechanism that requires receptor intracellular caspase cleavage. Acts as a dependence receptor, in the presence of the ligand GDNF in somatotrophs (within pituitary), promotes survival and down regulates growth hormone (GH) production, but triggers apoptosis in absence of GDNF. Regulates nociceptor survival and size. Triggers the differentiation of rapidly adapting (RA) mechanoreceptors. Mediator of several diseases such as neuroendocrine cancers, these diseases are characterized by aberrant integrins-regulated cell migration. {ECO:0000269 PubMed:17322904, ECO:0000269 PubMed:20237269}.</p>
Molecular Weight:	68.5 kDa Including tag.
UniProt:	P35546
Pathways:	RTK Signaling , Dopaminergic Neurogenesis , Regulation of Cell Size , Tube Formation

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:	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)

Images



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