

Datasheet for ABIN3136764 REST Protein (AA 1-1082) (His tag)



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	REST
Protein Characteristics:	AA 1-1082
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This REST protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys), ELISA

Product Details

Sequence:	<p>MATQVMGQSS GGGSLFNNSA NMGMALTNDM YDLHELKAE LAAPQLIMLA NVALTGEASG</p> <p>SCCDYLVGEE RQMAELMPVG DNHFSESEGE GLEESADLKG LENMELGSLE LSAVEPQPVF</p> <p>EASAAPEIYS ANKDPAPETP VAEDKCRSSK AKPFRCKPCQ YEAEESEQFV HHIRIHSACK</p> <p>FFVEESAELQ AKAWESGSSP AEEGEFSKGP IRCDRGYNNT NRYDHMAHL KHHLRAGENE</p> <p>RIYKCICTY TTVSEYHWRK HLRNHFPRKV YTCSKCNYS DRKNYVQHV RTHTGERPYK</p> <p>CELCPYSSSQ KTHLTRHMRT HSGEKPFCQD QCNYVASNQH EVTRHARQVH NGPKPLNCPH</p> <p>CDYKTADRSN FKKHVELHVN PRQFNCPVCD YAASKKCNLQ YHFKSKHPTC PSKTMDVSKV</p> <p>KLKKTCKREA DLLNNAVSNE KMENEQTKTK GDVSGKKNEK PVKAVGKDAS KEKPGSSVS</p> <p>VVQVTRTRK SAVAAETKAA EVKHTDGQTG NNPEKPCAK KNKRKKDAEA HPSEEPVNEG</p> <p>PVTKKKKKSE CKSKIGTNVP KGGGRAEERP GVKKQSASLK KGTKKTPPKT KTSKKGKLA</p> <p>PKGGMGQTEPS SGALAQVGVSPDPALIAEV TGSGSSQTEL PSPMDIAKSE PAQMEVSLTG</p> <p>PPPVEPAQME PSPAKPPQVE APTYPQPPQR GPAPPTGPAP PTGPAPPTEP APPTGLAEME</p>
-----------	---

PSPTESQKE PPPSMEPPCP EELPQAEPPP MEDCQKELPS PVEPAQIEVA QTAPTQVQEE
PPPVSEPPRV KPTKRSSLRK DRAEKELSL SEMARQEQVL MGVG LVPVRD SKLLKGNKSA
QDPPAPPSPS PKGNSREETP KDQEMVSDGE GTIVFPLKKG GP EEAGESPA ELAALKESAR
VSSSEQNSAM PEGGASHSKC QTGSSGLCDV DTEQKTD TVP MKDSAAEPVS PPTPTVDRDA
GSPAVVASPP ITLAENESQE IDEDEGIHSH DGSDLSDNMS EGSDDSGLHG ARPTPEATS
KNGKAGLAGK VTEGEFVCIF CDRSFRKEKD YSKHLNRHLV NVYFLEEAAE EQEEQEEREE QE

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 Rest 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.

Product Details

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:	REST
Alternative Name:	Rest (REST Products)
Background:	Transcriptional repressor which binds neuron-restrictive silencer element (NRSE) and represses neuronal gene transcription in non-neuronal cells. Restricts the expression of neuronal genes by associating with two distinct corepressors, mSin3 and CoREST, which in turn recruit histone deacetylase to the promoters of REST-regulated genes. Mediates repression by recruiting the BHC complex at RE1/NRSE sites which acts by deacetylating and demethylating specific sites on histones, thereby acting as a chromatin modifier. Transcriptional repression by REST-CDYL via the recruitment of histone methyltransferase EHMT2 may be important in transformation suppression (By similarity). {ECO:0000250}.
Molecular Weight:	118.7 kDa Including tag.
UniProt:	Q8VIG1
Pathways:	Negative Regulation of Hormone Secretion , Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process , Chromatin Binding , Positive Regulation of Endopeptidase Activity

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