



[Go to Product page](#)

Datasheet for ABIN3136747

PPARGC1B Protein (AA 1-1014) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	PPARGC1B
Protein Characteristics:	AA 1-1014
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPARGC1B protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MAGNDCGALL DEELSSFFLN YLSDTQGGDS GEEQLCADLP ELDLSQLDAS DFDSATCFGE
 LQWCPETSET EPSQYSPDDS ELFQIDSENE ALLAALTKTL DDIPEDDVGL AAFPPELDEGD
 TPSCTPASPA PLSAPPSPTL ERLSPASDV DELSLLQKLL LATSSPTASS DALKDGATWS
 QTSLSSRSQR PCVKVDGTQD KKTPTLRAQS RPCTELHKHL TSVLPCPRVK ACSPTPHSP
 RLLSKEEEEE VGEDCPSPWP TPASPQDSLA QDTASPDSAQ PPEEDVRAMV QLIRYMHTYC
 LPQRKLPQRA PEPIPQACSS LSRQVQPRSR HPPKAFWTEF SILRELLAQD ILCDVSKPYR
 LAIPVYASLT PQSRPRPPKD SQASPAHSAM AEEVRITASP KSTGPRPSLR PLRLEVKRDV
 NKPTRQKREE DEEEEEEEEE EEEEEEEEE EWGRKRPGRG LPWTKLGRKM DSSVCPVRRS
 RRLNPELGPW LTFTDEPLGA LPSMCLDTET HNLEEDLGSL TDSSQGRQLP QGSQIPALES
 PCESGCGDTD EDPSCPQPTS RDSSRCLMLA LSQSDSLGKK SFEESLTVEL CGTAGLTPPT
 TPPYKPMEEED PFKPDTKLSP GQDTAPSLPS PEALPLTATP GASHKLPKRH PERSELLSHL
 QHATTQPVSQ AGQKRPFSCS FGDHDYCVL RPEAALQRKV LRSWEPIGVH LEDLAQQGAP

LPTETKAPRR EANQNCDPTH KDSMQLRDHE IRASLTKHFG LLETALEGED LASCKSP EYD
TVFEDSSSSS GESSFLLEEE EEEEEEGEED DEGEDSGVSP PCSDHCPYQS PPSKASRQLC
SRSRSSSGSS SCSSWSPATR KNFRRESRGP CSDGTPSVRH ARKRREKAIG EGRVVYIRNL
SSDMSSRELK KRFEVFGEIV ECQVLTRSKR GQKHGFITFR CSEHAALSVR NGATLRKRNE
PSFHLSYGGL RHFRWPRYTD YDPTSEESLP SSGKSKYEAM DFDSLLKEAQ QSLH

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 Ppargc1b 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:	PPARGC1B
Alternative Name:	Ppargc1b (PPARGC1B Products)
Background:	<p>Plays a role of stimulator of transcription factors and nuclear receptors activities. Activates transcriptional activity of estrogen receptor alpha, nuclear respiratory factor 1 (NRF1) and glucocorticoid receptor in the presence of glucocorticoids. May play a role in constitutive non-adrenergic-mediated mitochondrial biogenesis as suggested by increased basal oxygen consumption and mitochondrial number when overexpressed. May be part of the pathways regulating the elevation of gluconeogenesis, beta-oxidation of fatty acids and ketogenesis during fasting. Stimulates SREBP-mediated lipogenic gene expression in the liver. Induces energy expenditure and antagonizes obesity when overexpressed. Induces also the expression of mitochondrial genes involved in oxidative metabolism. Induces the expression of PERM1 in the skeletal muscle in an ESRRA-dependent manner. {ECO:0000269 PubMed:11733490, ECO:0000269 PubMed:12678921, ECO:0000269 PubMed:14530391, ECO:0000269 PubMed:15680331}.</p>
Molecular Weight:	113.0 kDa Including tag.
UniProt:	Q8VHJ7
Pathways:	AMPK Signaling , Intracellular Steroid Hormone Receptor Signaling Pathway , Regulation of Lipid Metabolism by PPARalpha

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

Application Details

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