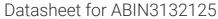
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GPR50 Protein (AA 1-591) (Strep Tag)



Overview

Quantity:	1 mg
Target:	GPR50
Protein Characteristics:	AA 1-591
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR50 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MATVPKSNMG PTKAVPTPFG CIGCKLPKPD YPPALIIFMF CAMVITVVVD LIGNSMVILA
VTKNKKLRNS GNIFVASLSV ADMLVAIYPY PLMLYAMSVG GWDLSQLQCQ MVGLVTGLSV
VGSIFNITAI AINRYCYICH SLQYKRIFSL RNTCIYLVVT WVMTVLAVLP NMYIGTIEYD
PRTYTCIFNY VNNPAFTVTI VCIHFVLPLI IVGYCYTKIW IKVLAARDPA GQNPDNQFAE
VRNFLTMFVI FLLFAVCWCP VNVLTVLVAV IPKEMAGKIP NWLYLAAYCI AYFNSCLNAI
IYGILNESFR REYWTIFHAM RHPILFISHL ISDIRETWET RALTRARVRA RDQVREQERA
RACVAVEGTP RNVRNVLLPG DASAPHSDRA SVRPKPQTRS TSVYRKPASI HHKSISGHPK
SASVYPKPAS SVHCKPASVH FKPASVHFKG DSVYFKGDTV HYRAASKLVT SHRISAGPST
SHPTSMAGYI KSGTSHPATT TVDYLEPATT SHSVLTAVDL PEVSASHCLE MTSTGHLRAD
ISASVLPSVP FELAATPPDT TAIPIASGDY RKVVLIDDDS DDSDCSDEMA V

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you

have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.

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.
≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
GPR50
Gpr50 (GPR50 Products)
Melatonin-related receptor (G protein-coupled receptor 50) (H9),FUNCTION: G protein-coupled receptor that plays a role in numerous physiological processes including regulation of energy metabolism, neurite outgrowth or cell migration (PubMed:17957037, PubMed:19699797). Promotes self-renewal and neuronal differentiation of neural progenitor cells through activation of the NOTCH and WNT/beta-catenin signaling pathways (PubMed:25689717). Modulates the KAT5-dependent glucocorticoid receptor signaling by modulating KAT5 subcellular compartmentalisation (PubMed:21858214). Plays also a role in the activation TGFBR1 in the absence of TGFBR2 by interfering with FKBP1A binding to TGFBR1, leading to induction of both canonical and non-canonical SMAD signaling pathways resulting in inhibition of proliferation or promotion of migration (PubMed:29572483). {ECO:0000269 PubMed:17957037, ECO:0000269 PubMed:19699797, ECO:0000269 PubMed:29572483}.
65.1 kDa
088495
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.
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Application Details

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Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)