

Datasheet for ABIN3123873

## GPR75 Protein (AA 1-540) (Strep Tag)



[Go to Product page](#)

### Overview

Quantity:	250 µg
Target:	GPR75
Protein Characteristics:	AA 1-540
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR75 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

### Product Details

Brand:	AlIcE®
Sequence:	<p>MNTSAPLQNV PNATLLNMPP LHGGNSTSLQ EGLRDFIHTA TLVTCTFLLA IIFCLGSYGN  FIVFLSFFDP SFRKFRTNFD FMILNLSFCD LFICGVTAPM FTFVLFFSSA SSIPDSFCFT  FHLTSSGFVI MSLKMOVAVIA LHRLRMVMGK QPNCTASFSC ILLTLLLWA TSFTLATLAT  LRTNKSHLCL PMSSLMDGEG KAILS LYVVD FTFCVAVVSV SYIMIAQTLR KNAQVKKCPP  VITVDASRPQ PFMGASVKGN GDPIQCTMPA LYRNQNYNKL QHSQTHGYTK NINQMPIPSA  SRLQLVSAIN FSTAKDSKAV VTCVIVLSV LVCCPLPLGIS LVQMVLSDNQ SFILYQFELF  GFTLIFFKSG LNPFIYSRNS AGLRRKVLWC LRYTGLGFLC CKQKTRLRAM GKGNLEINRN  KSSHETNSA YMLSPKPQRK FVDQACGPSH SKESAASPKV SAGHQPCGQS SSTPINTRIE  PYYSIYNSSP SQQESGPANL PPVNSFGFAS SYIAMHYTT NDLMQEYDST SAKQIPIPSV</p> <p><b>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</b></p>

**have a special request, please contact us.**

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Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 post-translational 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 against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

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Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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Purity:

> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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Grade:

custom-made

## Target Details

Target:	GPR75
Alternative Name:	Gpr75 ( <a href="#">GPR75 Products</a> )
Background:	<p>Probable G-protein coupled receptor 75,FUNCTION: G protein-coupled receptor that is activated by the chemokine CCL5/RANTES. Probably coupled to heterotrimeric Gq proteins, it stimulates inositol trisphosphate production and calcium mobilization upon activation. Together with CCL5/RANTES, may play a role in neuron survival through activation of a downstream signaling pathway involving the PI3, Akt and MAP kinases. CCL5/RANTES may also regulate insulin secretion by pancreatic islet cells through activation of this receptor.</p> <p>{ECO:0000269 PubMed:17001303, ECO:0000303 PubMed:23979485}.</p>
Molecular Weight:	59.5 kDa
UniProt:	<a href="#">Q6X632</a>

## Application Details

Application Notes:	<p>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.</p>
Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>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!</p>
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b></p>

## Handling

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Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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