

Datasheet for ABIN3136855
GPR124 Protein (AA 34-769) (His tag)



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	GPR124
Protein Characteristics:	AA 34-769
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR124 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	<p>APGCPVPIRG CKCSGERPKG LSGGAHNPAR RRVVCGGGDL PEPPDPGLLP NGTITLLLSN NKITGLRNGS FLGLSLEKL DLRSNVISTV QPGAFLGLGE LKRLDLSNNR IGCLTSETFQ GLPRLLRLNI SGNIYSSLQP GVFDLPALK IVDFGTEFLT CDCRLRWLLP WARNHSLQLS ERTLCAYPSA LHAHALSSLQ ESQRCEGAL ELHTHYLIPS LRQVVFQGDR LPFQCSASYL GNDTRIHWHYH NGAPMESDEQ AGIVLAENLI HDCTFITSEL TLSHIGVWAS GEWECSVSTV QGNTSKKVEI VVLETSASYC PAERVTNNRG DFRWPRTLGA ITAYQSCLQY PFTSVPLSGG APGTRASRRC DRAGRWEPCD YSHCLYTNDI TRVLYTFVLM PINASNALTL AHQLRVYTAE AASFSDMMDV VYVAQMIQKF LGYVDQIKEL VEVMDMASN LMLVDEHLLW LAQREDKACS GIVGALERIG GAALSPHAQH ISVNSRVAL EAYLIKPHSY VGLTCTAFQR REVGVSGAQP SSVGQDAPVE PEPLADQLR FRCTTGRPNI SLSSFHIKNS VALASIQLP SLFSTLPAAL APPVPPDCTL QLLVFRNGRL FRSHGNNTSR PGAAGPGKRR GVATPVIFAG TSGCGVGNLT EPVAVSLRHW AEGADPMAAW WNQDGGGWS SEGCLRYSQ PNVSSLYCQH LGNVAVLMEL</p>
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NAFPREAGGS GAGLHP

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 Adgra2 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.

Product Details

Grade: Crystallography grade

Target Details

Target: GPR124

Alternative Name: Adgra2 ([GPR124 Products](#))

Background: Endothelial receptor which functions as a WNT7-specific coactivator of canonical Wnt signaling (PubMed:25373781, PubMed:25558062). Required for normal endothelial cell sprouting and migration in the forebrain and neural tube (PubMed:21071672, PubMed:21282641, PubMed:21421844, PubMed:25373781). Has a major role in establishing the blood-brain barrier (PubMed:21421844, PubMed:25373781). Binds to the glycosaminoglycans heparin, heparin sulfate, chondroitin sulfate and dermatan sulfate (By similarity).
{ECO:0000250|UniProtKB:Q96PE1, ECO:0000269|PubMed:21071672, ECO:0000269|PubMed:21282641, ECO:0000269|PubMed:21421844, ECO:0000269|PubMed:25373781, ECO:0000269|PubMed:25558062}.

Molecular Weight: 80.7 kDa Including tag.

UniProt: [Q91ZV8](#)

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.

Handling

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