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GPR124 Protein (AA 34-1338) (rho-1D4 tag)





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Overview

Quantity:	1 mg
Target:	GPR124
Protein Characteristics:	AA 34-1338
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR124 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:

APGCPLSIRS CKCSGERPKG LSGGVPGPAR RRVVCSGGDL PEPPEPGLLP NGTVTLLLSN NKITGLRNGS FLGLSLLEKL DLRNNIISTV QPGAFLGLGE LKRLDLSNNR IGCLTSETFQ GLPRLLRLNI SGNIFSSLQP GVFDELPALK VVDLGTEFLT CDCHLRWLLP WAQNRSLQLS EHTLCAYPSA LHAQALGSLQ EAQLCCEGAL ELHTHHLIPS LRQVVFQGDR LPFQCSASYL GNDTRIRWYH NRAPVEGDEQ AGILLAESLI HDCTFITSEL TLSHIGVWAS GEWECTVSMA QGNASKKVEI VVLETSASYC PAERVANNRG DFRWPRTLAG ITAYQSCLQY PFTSVPLGGG APGTRASRRC DRAGRWEPGD YSHCLYTNDI TRVLYTFVLM PINASNALTL AHQLRVYTAE AASFSDMMDV VYVAQMIQKF LGYVDQIKEL VEVMVDMASN LMLVDEHLLW LAQREDKACS RIVGALERIG GAALSPHAQH ISVNARNVAL EAYLIKPHSY VGLTCTAFQR REGGVPGTRP GSPGQNPPPE PEPPADQQLR FRCTTGRPNV SLSSFHIKNS VALASIQLPP SLFSSLPAAL APPVPPDCTL QLLVFRNGRL FHSHSNTSRP GAAGPGKRRG VATPVIFAGT SGCGVGNLTE PVAVSLRHWA EGAEPVAAWW SQEGPGEAGG WTSEGCQLRS SQPNVSALHC QHLGNVAVLM

ELSAFPREVG GAGAGLHPVV YPCTALLLLC LFATIITYIL NHSSIRVSRK GWHMLLNLCF
HIAMTSAVFA GGITLTNYQM VCQAVGITLH YSSLSTLLWM GVKARVLHKE LTWRAPPPQE
GDPALPTPSP MLRFYLIAGG IPLIICGITA AVNIHNYRDH SPYCWLVWRP SLGAFYIPVA
LILLITWIYF LCAGLRLRGP LAQNPKAGNS RASLEAGEEL RGSTRLRGSG PLLSDSGSLL
ATGSARVGTP GPPEDGDSLY SPGVQLGALV TTHFLYLAMW ACGALAVSQR WLPRVVCSCL
YGVAASALGL FVFTHHCARR RDVRASWRAC CPPASPAAPH APPRALPAAA EDGSPVFGEG
PPSLKSSPSG SSGHPLALGP CKLTNLQLAQ SQVCEAGAAA GGEGEPEPAG TRGNLAHRHP
NNVHHGRRAH KSRAKGHRAG EACGKNRLKA LRGGAAGALE LLSSESGSLH NSPTDSYLGS
SRNSPGAGLQ LEGEPMLTPS EGSDTSAAPL SEAGRAGQRR SASRDSLKGG GALEKESHRR
SYPLNAASLN GAPKGGKYDD VTLMGAEVAS GGCMKTGLWK SETTV

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.
- Human 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 receival 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:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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. Grade: Crystallography grade Target Details **GPR124** Target: Alternative Name: ADGRA2 (GPR124 Products) Background: Endothelial receptor which functions as a WNT7-specific coactivator of canonical Wnt signaling (By similarity). Required for normal endothelial cell sprouting and migration in the forebrain and neural tube (By similarity). Has a major role in establishing the blood-brain barrier (By similarity). Binds to the glycosaminoglycans heparin, heparin sulfate, chondroitin sulfate and dermatan sulfate (PubMed:16982628). {ECO:0000250|UniProtKB:Q91ZV8, ECO:0000269|PubMed:22013897}. Molecular Weight: 140.3 kDa Including tag. UniProt: **Q96PE1 Application Details** In addition to the applications listed above we expect the protein to work for functional studies **Application Notes:** as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. Comment: 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.

Application Details

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

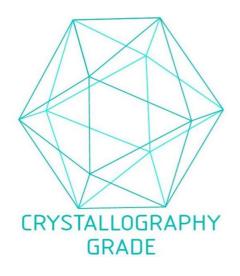


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process