

Datasheet for ABIN3085265

Rho-related GTP-binding protein Protein (RhO (pan)) (AA 1-348)



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3 Images

Overview

Quantity:	0.5 mg
Target:	Rho-related GTP-binding protein (RhO (pan))
Protein Characteristics:	AA 1-348
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS), Crystallization (Crys), ELISA, Western Blotting (WB)

Product Details

Sequence: MNGTEGPNFY VPFSNATGVV RSPFEYPQYY LAEPWQFSML AAYMFLILV GFPINFLTLY
VTVQHKKLRT PLNYILLNLA VADLFMVLGG FTSTLYTSLH GYFVFGPTGC NLEGFFATLG
GEIALWVSLV LAIERVVVVC KPMSNFRFGE NHAIMGVAFT WVMALACAAP PLAGWSRYIP
EGLQCSCGID YYTLKPEVNN ESFVIYMFVV HFTIPMIIIF FCYGQLVFTV KEAAAQQQES
ATTQKAEKEV TRMVIIMVIA FLICWVPYAS VAFYIFTHQG SNFGPIFMTI PAFFAKSAAI
YNPVIYIMMN KQFRNCMLTT ICCGKNPLGD DEASATVSKT ETSQVAPA

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
 - Human RHO 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).

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

Product Details

the Expsy's protparam tool to determine the absorption coefficient of each protein.

Purification: The protein is purified from the cleared cell lysate using Rho1D4 capture materials. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions are subjected to a 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.

Grade: Crystallography grade

Target Details

Target: Rho-related GTP-binding protein (RhO (pan))

Alternative Name: rho ([RhO \(pan\) Products](#))

Target Type: Chemical

Background: Photoreceptor required for image-forming vision at low light intensity. Required for photoreceptor cell viability after birth. Light-induced isomerization of 11-cis to all-trans retinal triggers a conformational change leading to G-protein activation and release of all-trans retinal.

Molecular Weight: 40.1 kDa Including tag.

UniProt: [P08100](#)

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: 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:	40 mM Hepes, pH 6.8, 10 mM KCl, 130 mM NaCl, 3 mM MgCl ₂ , 2 mM CaCl ₂ , 0,1 mM EDTA, 1 mM DTT, Leupeptin
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

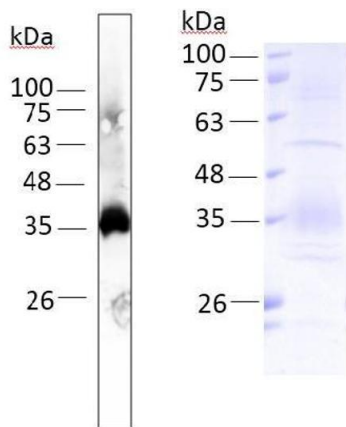


Image 2.

Rhodopsin (Rho) (AA1-348), ml 16-18

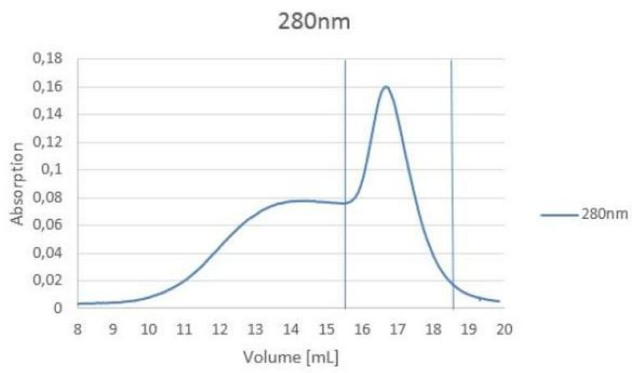


Image 3.

Rhodopsin (Rho) (AA1-348), gel filtration
Superose 6, ml 16 - 18