Human PAC1R Full Length Protein, Flag,His Tag (Detergent)

Catalog # PAR-H52D3

Application

- Immunization
- Affinity testing (SPR / BLI)
- Screening (ELISA)

Synonyms

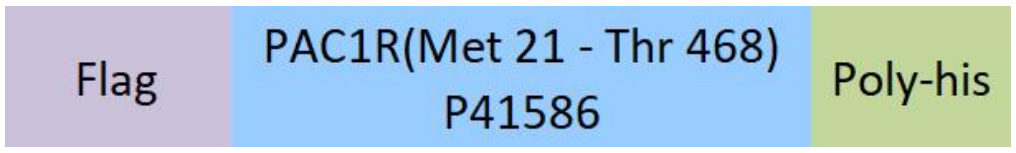
PAC1R

Source

Detergent Human PAC1R Full Length Protein, Flag,His Tag (PAR-H52D3) is expressed from human 293 cells (HEK293). It contains AA Met 21 - Thr 468 (Accession # P41586).

Predicted N-terminus: Asp

Molecular Characterization

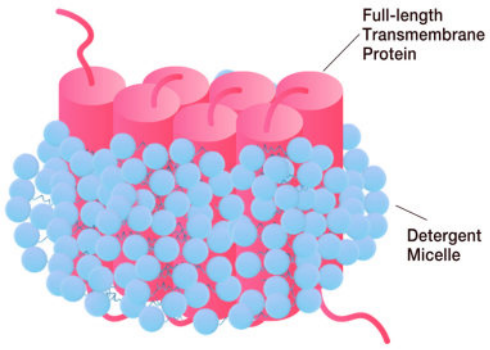


This protein carries a flag tag at the N-terminus and a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 70.4 kDa. The protein migrates as 55 kDa, 70-95 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

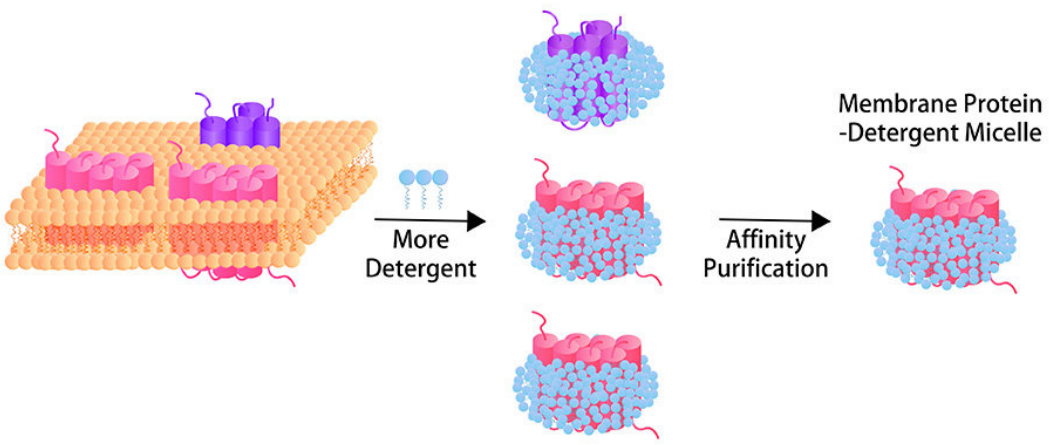
*The DDM/CHS buffer (Cat. No. DC-11) is sold separately and not included in protein, you can follow the link for product information.

- **Structure**



Each full-length transmembrane protein is encapsulated by detergent micelle.

- **Synthesis Process**



Through **mild detergent micelle extraction**, dedicated solubilization, and stringent affinity purification, we maximally retain the native transmembrane conformation of full-length transmembrane proteins throughout downstream purification. This workflow yields purified, detergent-solubilized proteins free of unrelated membrane impurities and exogenous scaffold proteins, with **exceptional purity, accurate quantitation**, and well-preserved biological activity—ideal for immunization, binding assays in antibody discovery and screening (ELISA) and affinity testing (SPR and BLI), etc.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

This product is not suitable for cell based experiments due to cytotoxicity of DDM.
DDM and CHS are INDISPENSABLE to keep membrane protein soluble and active, under no circumstances should you remove DDM and CHS.
DDM/CHS buffer (DC-11) is sold separately and not included in protein, and please contact us if you need the buffer.
If glycerol is not compatible with your application, remove glycerol just before the immediate experiment, and NEVER store glycerol-free protein solution.

Supplied as 0.2 μm filtered solution in 50 mM HEPES, 150 mM NaCl, DDM, CHS, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping and Storage

This product is supplied and shipped on dry ice.

Please avoid repeated freeze-thaw cycles.

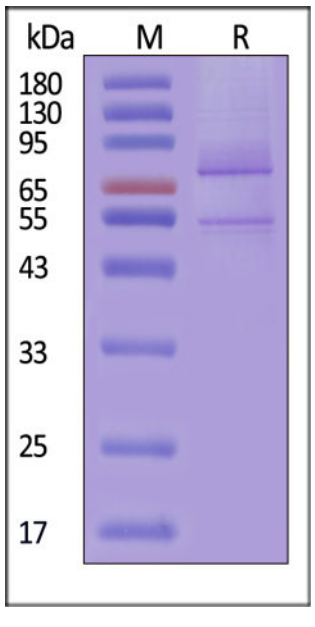
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

ACRO Quality Management System

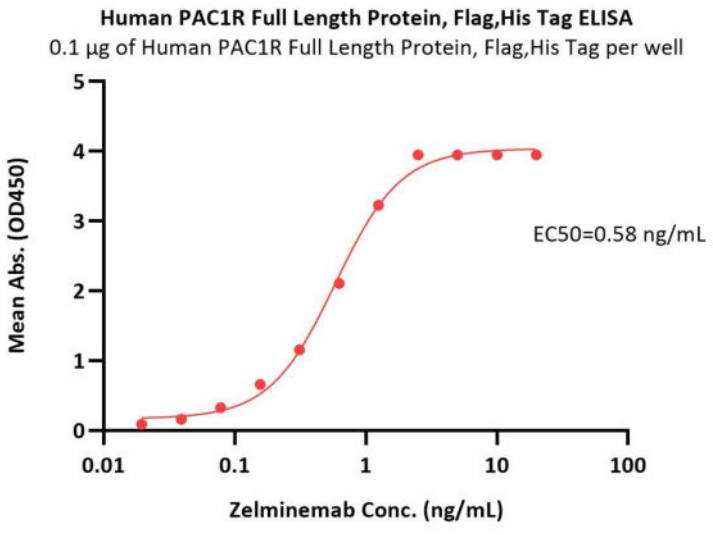
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



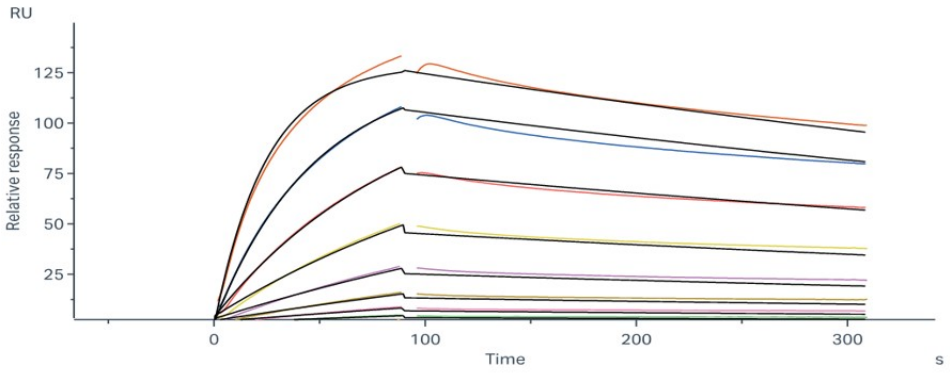
Human PAC1R Full Length Protein, Flag,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

Bioactivity-ELISA



Immobilized Human PAC1R Full Length Protein, Flag,His Tag (Cat. No. PAR-H52D3) at 1 μg/mL (100 μL/well) can bind Zelminemab with a linear range of 0.02-1 ng/mL (QC tested).

Bioactivity-SPR



Zelminemab captured on Protein A Chip can bind Human PAC1R Full Length Protein, Flag,His Tag (Cat. No. PAR-H52D3) with an affinity constant of 0.144 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

PAC1R is a class B G-protein-coupled receptor primarily activated by the neuropeptide PACAP. Abundantly expressed in the nervous system, it acts as a critical pain modulator in the trigeminal vascular system, making it a premier therapeutic target for migraine, chronic pain, and stress-related disorders like PTSD.

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