

Human STEAP3 Full Length Protein, Flag Tag (Nanodisc-pro)

Catalog # ST3-H55C3



BIOSYSTEMS
Acro

Application

- Cell based assay (FACS or functional assay)
- Affinity testing (SPR / BLI)
- Screening (ELISA)

Synonyms

STEAP3

Source

Nanodisc-pro Human STEAP3 Full Length Protein, Flag Tag (ST3-H55C3) is expressed from Baculovirus-Insect cells. It contains AA Pro 2 - Val 488 (Accession # [Q658P3-1](#)).

Predicted N-terminus: Met

Molecular Characterization

STEAP3(Pro 2 - Val 488)
Q658P3-1

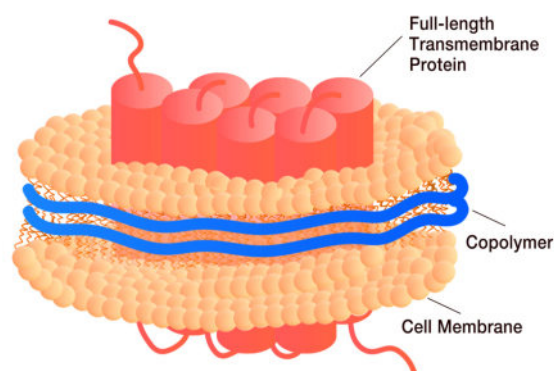
Flag

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

The protein has a calculated MW of 56.3 kDa. The protein migrates as 50-55 kDa and 95-110 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

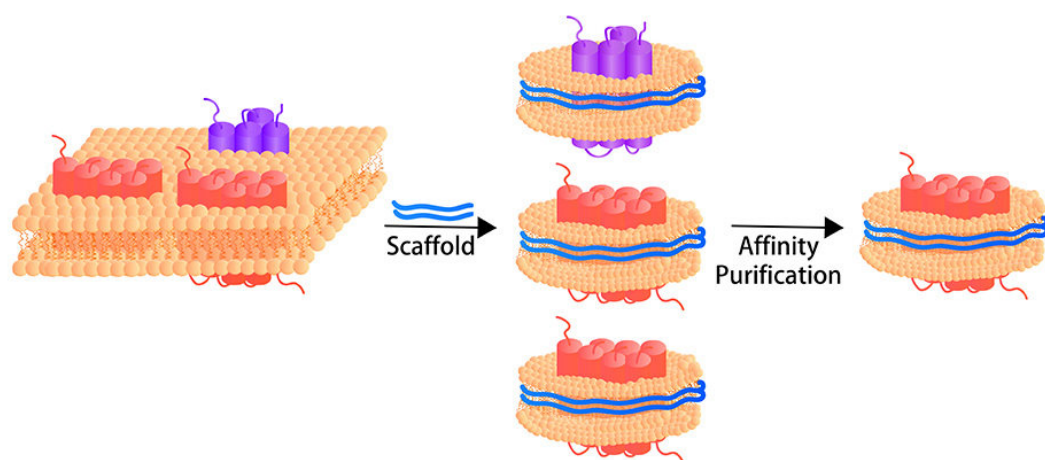
*The isotype control of empty/mock nanodisc (Cat. No. [APO-H5143](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

• Structure



Nanodisc-pro membrane protein is wrapped by a piece of cell membrane and scaffold, the info of scaffold can be found in above red text "isotope type control..."

• Synthesis Process



Nanodisc-pro membrane protein extraction is a gentle, non-disruptive process that **directly isolates full-length transmembrane proteins together with their surrounding native phospholipids from cellular membranes**, without breaking or disturbing the original membrane structure. This preserves the membrane protein's natural conformational landscape and native lipid environment, yielding stable nanodisc that retain cellular phospholipids, with fully preserved biological activity—making them **ideal for cell-based assays such as FACS** and binding assays in antibody discovery and screening (ELISA), etc.

Purity

>90% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 μ m filtered solution in 20 mM HEPES, 150 mM NaCl, 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.

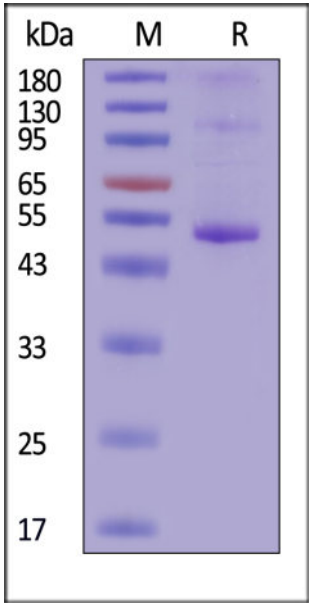
This product is stable after storage at:

- 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 STEAP3 Full Length Protein, Flag 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](#)).

Background

This gene is a member of the STEAP family and encodes a multi-pass membrane protein that localizes to the Golgi complex, the plasma membrane, and the vesicular tubular structures in the cytosol. A highly similar protein in mouse has both ferrireductase and cupric reductase activity, and stimulates the cellular uptake of both iron and copper in vitro. Increased transcriptional expression of the human gene is associated with prostate cancer progression. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.



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