



Synonym

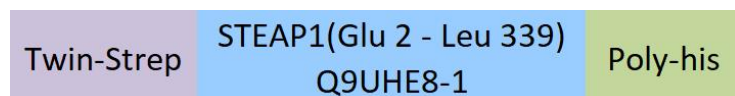
STEAP1, PRSS24, STEAP

Source

Human STEAP1 Full Length Protein, Twin-Strep,His Tag(ST1-H5283) is expressed from human 293 cells (HEK293). It contains AA Glu 2 - Leu 339 (Accession # [Q9UHE8-1](#)).

Predicted N-terminus: Met

Molecular Characterization



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

The protein has a calculated MW of 44.7 kDa. The protein migrates as 40-42 kDa and 80 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to Glycosylation.

Endotoxin

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

*The detergent Buffer A (Cat. No. [DN-12](#)) is sold separately and not included in protein. You can learn about the product information through [this link](#). We recommend [DN-12](#) for ELISA assay and [DC-11](#) for SPR/BLI assay.

Purity

>85% as determined by SDS-PAGE.

Formulation

This product is not suitable for cell based experiments due to cytotoxicity of detergent.

Detergent buffer is INDISPENSABLE to keep membrane protein soluble and active, under no circumstance should you remove detergent.

Detergent buffer is sold separately and not included in protein, and please contact us if you need the buffer.

If glycerol is not compatible to your application, remove glycerol just before immediate experiment, and NEVER store glycerol-free protein solution.

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

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

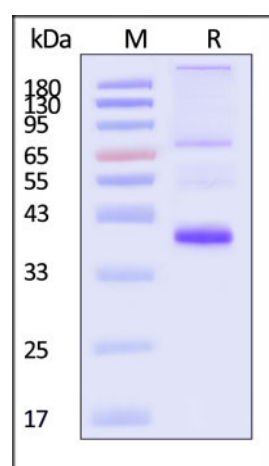
Storage

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 3 months under sterile conditions.

SDS-PAGE



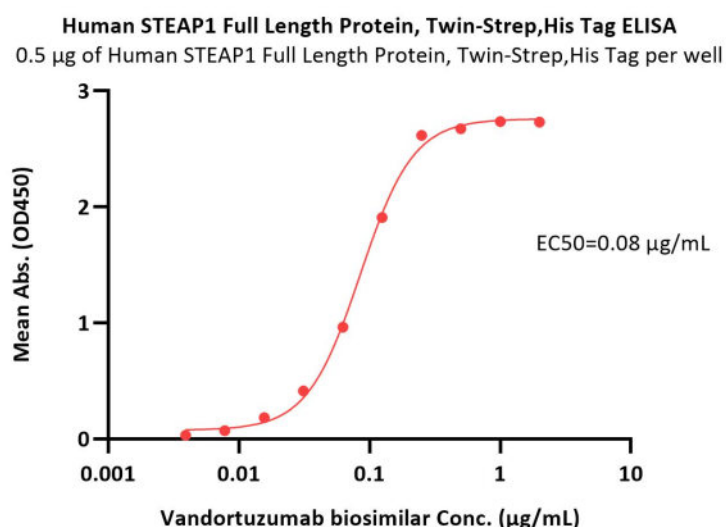
Human STEAP1 Full Length Protein, Twin-Strep,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 85% (With [Star Ribbon Pre-stained Protein Marker](#)).

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and more!



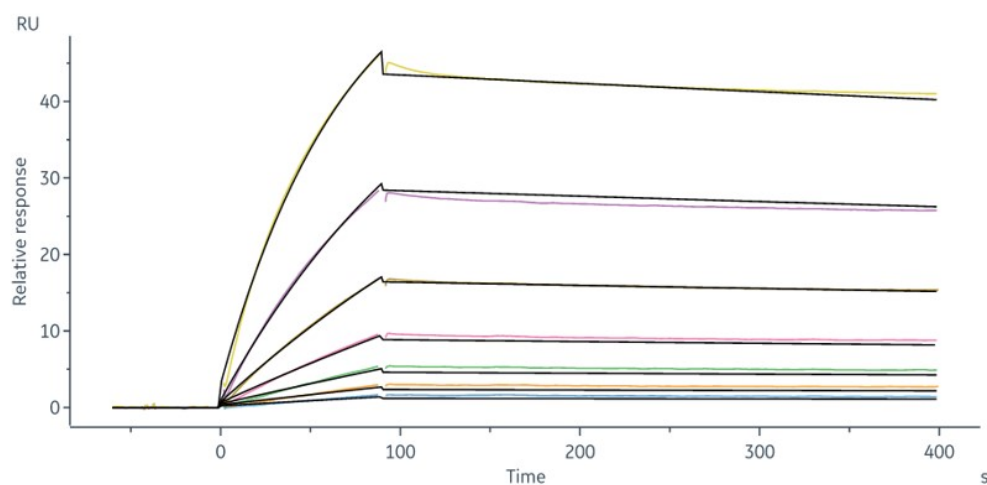


Bioactivity-ELISA



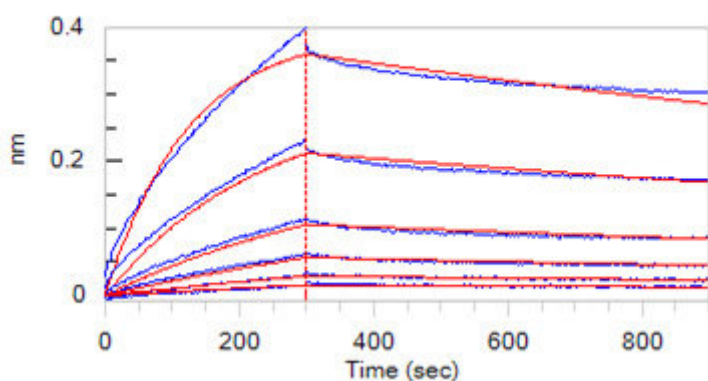
Immobilized Human STEAP1 Full Length Protein, Twin-Strep,His Tag (Cat. No. ST1-H5283) at 5 µg/mL (100 µL/well) on a Nickel Coated plate (Cat. No. SP-19) can bind Vandortuzumab biosimilar with a linear range of 0.004-0.25 µg/mL (QC tested).

Bioactivity-SPR



Anti-STEAP (Vandortuzumab) captured on Protein A Chip can bind Human STEAP1 Full Length Protein, Twin-Strep,His Tag (Cat. No. ST1-H5283) with an affinity constant of 2.30 nM as determined in a SPR assay (in presence of DDM and CHS) (Biacore 8K) (QC tested).

Bioactivity-BLI



Loaded Anti-STEAP1(Xaluritamig) on Protein A Biosensor, can bind Human STEAP1 Full Length Protein, Twin-Strep,His Tag (Cat. No. ST1-H5283) with

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an affinity constant of 9.86 nM as determined in BLI assay (in presence of DDM and CHS) (ForteBio Octet RED96e) (Routinely tested).

Background

Six-transmembrane epithelial antigen of the prostate 1 (STEAP1) is an integral membrane protein that is highly up-regulated on the cell surface of several human cancers, making it a promising therapeutic target to manage these diseases. It shares sequence homology with three enzymes (STEAP2-STEAP4) that catalyze the NADPH-dependent reduction of iron(III). Taking into account its high specificity and overexpression in human cancers, STEAP1 is nowadays a promising candidate to be imposed as a therapeutic target.

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