

Datasheet for ABIN7555637

STEAP4 Protein (AA 1-459) (His tag)



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Overview

Quantity:	1 mg
Target:	STEAP4
Protein Characteristics:	AA 1-459
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This STEAP4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant STEAP4 Protein expressed in mammalian cells.
Sequence:	<p>MEKTCIDALP LTMNSSEKQE TVCIFGTGDF GRSLGLKMLQ CGYSVVFSGR NPQKTTLLPS</p> <p>GAEVLSYSEA AKKSGIIIA IHREHYDFLT ELTEVLNGKI LVDISNNLKI NQYPESNAEY</p> <p>LAHLVPGAHV VKAFNTISAW ALQSGALDAS RQVFVCGNDS KAKQRMVDIV RNLGLTPMDQ</p> <p>GSLMAAKEIE KYPLQLFPMW RFPFYLSAVL CVFLFFYCVI RDVIYPYVYE KKDNTFRMAI</p> <p>SIPNRIFPIT ALTLLALVYL PGVIAAILQL YRGTKYRRFP DWLDHWMLCR KQLGLVALGF</p> <p>AFLHVLYTLV IPIRYVVRWR LGNLTVTQAI LKKENPFSTS SAWLSDSYVA LGILGFFLFV</p> <p>LLGITSLSV SNAVNWREFR FVQSKLGYLT LILCTAHTLV YGGKRFLSPS NLRWYLPAA</p> <p>VLGLIIPCTV LVIKFLIMP CVDNTLTRIR QGWERNCHK Sequence without tag. The proposed</p> <p>Purification-Tag is based on experiences with the expression system, a different complexity</p> <p>of the protein could make another tag necessary. In case you have a special request, please</p> <p>contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

isoform, please contact us regarding an individual offer.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

STEAP4

Alternative Name:

STEAP4 ([STEAP4 Products](#))

Background:

Metalloreductase STEAP4 (EC 1.16.1.-) (Six-transmembrane epithelial antigen of prostate 4) (SixTransMembrane protein of prostate 2) (Tumor necrosis factor, alpha-induced protein 9),FUNCTION: Integral membrane protein that functions as a NADPH-dependent ferric-chelate reductase, using NADPH from one side of the membrane to reduce a Fe(3+) chelate that is bound on the other side of the membrane. Mediates sequential transmembrane electron transfer from NADPH to FAD and onto heme, and finally to the Fe(3+) chelate (PubMed:30337524). Can also reduce Cu(2+) to Cu(1+) (By similarity). Plays a role in systemic metabolic homeostasis, integrating inflammatory and metabolic responses (By similarity). Associated with obesity and insulin-resistance (PubMed:18430367, PubMed:18381574). Involved in inflammatory arthritis, through the regulation of inflammatory cytokines (PubMed:19660107). Inhibits anchorage-independent cell proliferation (PubMed:19787193). {ECO:0000250|UniProtKB:Q923B6, ECO:0000269|PubMed:18381574,

Target Details

	ECO:0000269 PubMed:18430367, ECO:0000269 PubMed:19660107, ECO:0000269 PubMed:19787193, ECO:0000269 PubMed:30337524}.
Molecular Weight:	52.0 kDa
UniProt:	Q687X5
Pathways:	Transition Metal Ion Homeostasis

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months