

STEAP2 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702451
Synonyms:	Metalloreductase STEAP2; Prostate cancer-associated protein 1; Protein up-regulated in metastatic prostate cancer; PUMPCn; Six-transmembrane epithelial antigen of prostate 2; SixTransMembrane protein of prostate 1
Species:	Human
Source:	E. coli Cell-free
Accession:	Q8NFT2 (M1-M490)
Gene ID:	261729
Molecular Weight:	57.6 kDa

PROPERTIES

AA Sequence	<pre> M E S I S M M G S P K S L S E T F L P N G I N G I K D A R K V T V G V I G S G D F A K S L T I R L I R C G Y H V V I G S R N P K F A S E F F P H V V D V T H H E D A L T K T N I I F V A I H R E H Y T S L W D L R H L L V G K I L I D V S N N M R I N Q Y P E S N A E Y L A S L F P D S L I V K G F N V V S A W A L Q L G P K D A S R Q V Y I C S N N I Q A R Q Q V I E L A R Q L N F I P I D L G S L S S A R E I E N L P L R L F T L W R G P V V V A I S L A T F F F L Y S F V R D V I H P Y A R N Q Q S D F Y K I P I E I V N K T L P I V A I T L L S L V Y L A G L L A A A Y Q L Y Y G T K Y R R F P P W L E T W L Q C R K Q L G L L S F F F A M V H V A Y S L C L P M R R S E R Y L F L N M A Y Q Q V H A N I E N S W N E E E V W R I E M Y I S F G I M S L G L L S L L A V T S I P S V S N A L N W R E F S F I Q S T L G Y V A L L I S T F H V L I Y G W K R A F E E E Y Y R F Y T P P N F V L A L V L P S I V I L G K I I L F L P C I S R K L K R I K K G W E K S Q F L E E G M G G T I P H V S P E R V T V M </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The STEAP2 protein, an integral membrane protein, serves as an NADPH-dependent ferric-chelate reductase, employing NADPH from one side of the membrane to reduce a Fe(3+) chelate bound on the opposite side. Operating through sequential transmembrane electron transfer, STEAP2 facilitates the transfer of electrons from NADPH to FAD and then onto heme, ultimately reducing the Fe(3+) chelate. Additionally, STEAP2 exhibits the capability to reduce Cu(2+) to Cu(1+), adding versatility to its role as a mediator of transmembrane electron transfer processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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