

## STEAP1 Protein, Mouse (Cell-Free, His)

<b>Cat. No.:</b>	HY-P702448
<b>Synonyms:</b>	Metalloreductase STEAP1; Six-transmembrane epithelial antigen of prostate 1
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli Cell-free
<b>Accession:</b>	Q9CWR7 (M1-L339)
<b>Gene ID:</b>	70358
<b>Molecular Weight:</b>	40.7 kDa

### PROPERTIES

#### AA Sequence

MEISDDVTNP	EQLWKMKPKG	NLEDDSYSTK	DSGETSMLKR
PGLSHLQHAV	HVDAFDCPSE	LQHTQEFFPN	WRLPVKVAAI
ISSLTFLYTL	LREIIYPLVT	SREQYFYKIP	ILVINKVLP
VAITLLALVY	LPGELA AVVQ	LRNGTKYKKF	PPWLDRWMLA
RKQFGLLSFF	FAVLHAVYSL	SYPMRRSYRY	KLLNWAYKQV
QQNKEDAWVE	HDVWRMEIYV	SLGIVGLAIL	ALLAVTSIPS
VSDSLTWREF	HYIQSKLGIV	SLLLGTVHAL	VFAWNKWVDV
SQFVWYMPPT	FMI AVFLPTL	VLICKIALCL	PCLRKKILKI
RCGWEDVSKI	NRTEMASRL		

#### 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<sub>2</sub>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

STEAP1 (Six-Transmembrane Epithelial Antigen of the Prostate 1) protein, as indicated by available information, does not operate as a metalloreductase primarily because it lacks binding sites for the electron-donating substrate NADPH.

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Metalloreductases play a crucial role in cellular processes by reducing metal ions, but the absence of NADPH binding sites in STEAP1 suggests a distinct functional profile. This observation highlights the importance of understanding the structural and biochemical features of STEAP1 in elucidating its role within cellular pathways. Further research is necessary to uncover the specific functions and implications associated with STEAP1, both in normal cellular processes and potential connections to diseases or physiological conditions, as its distinctive characteristics may contribute to its unique role within the cellular environment. (

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

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