

STEAP1 Protein, Rat (Cell-Free, His)

Cat. No.:	HY-P702449
Synonyms:	STEAP family member 1
Species:	Rat
Source:	E. coli Cell-free
Accession:	D3ZEK7 (M1-L339)
Gene ID:	297738
Molecular Weight:	40.7 kDa

PROPERTIES

AA Sequence

MEISKNITNP	EELWKMKPKG	NLEDDSYSTK	DTGETSMLKR
PVLSPLPHTV	HVDAFD C PTE	LQHTQELFPN	WQLPIKVA AV
LSLTLFLYTL	LREIIYPLVA	SREQYFYKIP	ILVVNKVLP M
VSITLLALVY	LPGEIAAVVQ	LRNGTKYKKF	PPWLD RWMLA
RKQFGLLSFF	FAVLHAIYSL	SYPMRRSYRY	KLLNWAYKQV
QQSKEDAWVE	HDVWRMEIYV	SLGIVGLAIL	ALLAVTSIPS
VSDSLTWREF	HYIQSKLGIV	SLLLGTVHAS	IFAWNKWVDI
SQFVWYMPPT	FMI AVFLPTV	VLICKIVLCL	PCLRKKILKI
RCGWEDVRKV	NRTEMACRL		

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.22 μ m filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Endotoxin Level

<1 EU/ μ g, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH₂O. 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.

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. (

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA