

Recombinant Human STEAP family member 4, His-tagged

Cat. No. STEAP4-496H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	STEAP4, 1-152aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-152 a.a.
Description	STEAP4 belongs to the STEAP (six transmembrane epithelial antigen of prostate) family, and resides in the golgi apparatus. It functions as a metalloredutase that has the ability to reduce both Fe(3+) to Fe(2+) and Cu(2+) to Cu(1+), using NAD(+) as acceptor. Studies in mice and human suggest that this gene maybe involved in adipocyte development and metabolism, and may contribute to the normal biology of the prostate cell, as well as prostate cancer progression. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Recombinant human STEAP4 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
Molecular Mass	20.6kDa (188aa)
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMEKT CIDALPLTMN SSEKQETVCI FGTGDFGRSL GLKMLQCGYS VVFGSRNPQK TTLPSGAEV LSYSEAAKKS GIIIIAHRE HYDFLTELTE VLNGKILVDI SNNLKINQYP

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ESNAEYLAHL VPGAHVVKAF NTISAWALQS GALDASRQ

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [STEAP4 STEAP family member 4 \[Homo sapiens \]](#)

Official Symbol STEAP4

Synonyms STEAP4; STEAP family member 4; TNFAIP9, tumor necrosis factor, alpha induced protein 9; metalloreductase STEAP4; FLJ23153; STAMP2; TIARP; six transmembrane prostate protein 2; sixTransMembrane protein of prostate 2; tumor necrosis factor, alpha-induced protein 9; six-transmembrane epithelial antigen of prostate 4; tumor necrosis-alpha-induced adipose-related protein; TNFAIP9; DKFZp666D049;

Gene ID [79689](#)

mRNA Refseq [NM_001205315](#)

Protein Refseq [NP_001192244](#)

MIM [611098](#)

UniProt ID [Q687X5](#)

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Chromosome Location	7q21.13
Function	electron carrier activity; flavin adenine dinucleotide binding; iron ion binding; metal ion binding; nucleotide binding; oxidoreductase activity;

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