Recombinant human CTDSP1 protein

Catalog Number: ATGP1013

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-260aa

UniProt No.
Q9GZU7

NCBI Accession No.
NP_872580

Alternative Names
Carboxy-terminal domain RNA polymerase II polypeptide A phosphatase 1, Carboxy-terminal domain, RNA polymerase II, polypeptide A phosphatase 1, NLIIF, SCP1, NIF3

PRODUCT SPECIFICATION

Molecular Weight
31.2 kDa (280aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 0.1M NaCl

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Carboxy-terminal domain, RNA polymerase II, polypeptide A phosphatase 1, also known as CTDSP1, is a class 2C phosphatase with activity dependent on the conserved DxD motif. CTDSP1 preferentially catalyzes the dephosphorylation of 'Ser-5' within the tandem 7 residues repeats in the C-terminal domain (CTD) of the largest RNA polymerase II subunit POLR2A. Also it negatively regulates RNA polymerase II transcription, possibly by controlling the transition from initiation/capping to processive transcript elongation. Recombinant human

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CTDSP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

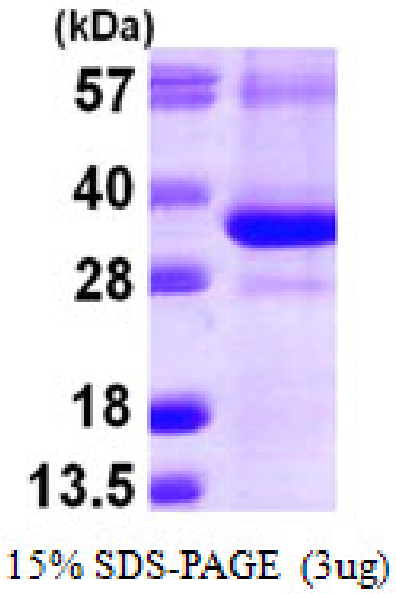
MGSSHHHHHH SSGLVPRGSH MDSSAVITQI SKEEARGPLR GKGDQKSAAS QKPRSRGILH SLFCCVCRDD GEALPAHSGA PLLVEENGAI PKTPVQYLLP EAKAQDSDKI CVVIDLDETL VHSSFKPVNN ADFIIPVEID GVVHQVYVLK RPHVDEFLQR MGELFECVLF TASLAKYADP VADLLDKWGA FRARLFRESC VFHRGNYVKD LSRLGRDLRR VLILDNSPAS YVFHPDNAVP VASWFDNMSD TELHDLLPFF EQLSRVDDVY SVLRQPRPGS

General References

Maiello B., et al. (2001) Front Biosci. 6: 1358-1368.
Palancade B., et al. (2004) J Mol Biol. 335:415-424.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.