Recombinant human HUS1 protein

Catalog Number: ATGP0815

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-280aa

UniProt No.
O60921

NCBI Accession No.
NP_004498

Alternative Names
Checkpoint protein HuS1, HUS1 checkpoint clamp component, HUS1 checkpoint homolog, hus1+-like protein, hHUS1

PRODUCT SPECIFICATION

Molecular Weight
33.8 kDa (300aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 40% glycerol

Purity
> 95% 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
HuS1 is a component of an evolutionarily conserved, genotoxin-activated checkpoint complex. This protein associates with Rad9 and Rad1 to form the 9-1-1 (RAD9-RAD1-HuS1) complex, which localizes to DNA lesions and promotes DNA damage signaling and repair or apoptosis, cell cycle arrest. The trimeric complex is structurally similar to the proliferating cell nuclear antigen (PCNA) sliding clamp and interacts with Rad17 as a clamp-clamp loader pair during the DNA damage response. Recombinant human HuS1 protein, fused to His-tag

at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

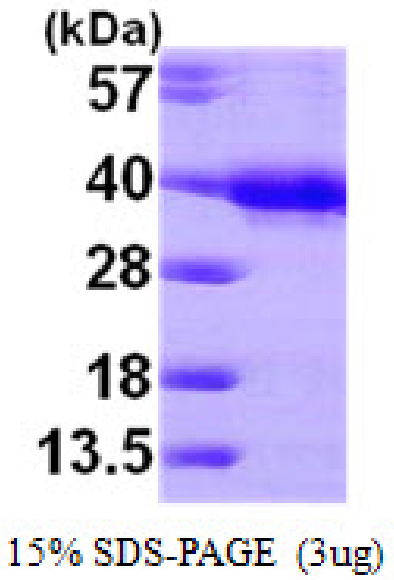
MGSSHHHHHH SSGLVPRGSH MKFRAKIVDG ACLNHFTRIS NMIAKLAKTC TLRISPDKLN FILCDKLANG GVSMWCELEQ ENFFNEFQME GVSAENNEIY LELTSENLSR ALKTAQNARA LKIKLTNKHF PCLTVSVELL SMSSSSRIVT HDIPIKVIPR KLWKDLQEPV VPDPDVSIYL PVLKTMKSVV EKMKNISNHL VIEANLDGEL NLKIETELVC VTTHFKDLGN PPLASESTHE DRNVEHMAEV HIDIRKLLQF LAGQQVNPTK ALCNIVNNKM VHFDLLHEDV SLQYFIPALS

General References

Weiss RS., et al (2009) Proc Natl Acad Sci u S A. 106(50):21282-7.
Roos-Mattjus P., et al (2002) J Biol Chem. 15
277(46):43809-12.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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