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Recombinant human WDR5 protein

Catalog Number: ATGP0632

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-334aa

UniProt No.
P61964

NCBI Accession No.
NP_438172.1

Alternative Names
WD repeat-containing protein 5, BIG-3, SWD3, WD repeat-containing protein 5, BIG 3, WDR 5, WDR-5

PRODUCT SPECIFICATION

Molecular Weight
38.8 kDa (354aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.

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
WDR5, also designated BMP-2-induced gene 3 kb or BIG-3, belongs to the family of WD-40 repeat proteins, and is essential for vertebrate development, Hox gene activation and global H3K4 trimethylation. This protein is expressed in osteoblasts, chondrocytes, osteocytes and marrow stromal cells. WDR5 may play a role in its function of accelerating osteoblast differentiation. Recombinant human WDR5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

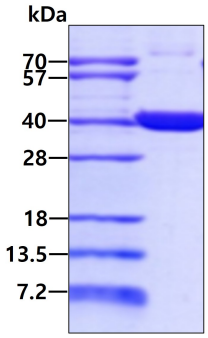
<MGSSHHHHHH SSGLVPRGSH> MATEEKKPET EAARAQPTPS SSATQSKPTP VKPNYALKFT LAGHTKAVSS VKFSPNGEWL ASSSADKLIK IWGAYDGKFE KTISGHKLGI SDVAWSSDSN LLVSASDDKT LKIWDVSSGK CLKTLKGHSN YVFCCNFNPQ SNLIVSGSFD ESVRIWDVKT GKCLKTLPAH SDPVSAVHFN RDGSLIVSSS YDGLCRIWDT ASGQCLKTLI DDDNPPVSFV KFSPNGKYIL AATLDNTLKL WDYSKGKCLK TYTGHKNEKY CIFANFSVTG GKWIVSGSED NLVYIWNLQT KEIVQKLQGH TDVVISTACH PTENIIASAA LENDKTIKLW KSDC

General References

Yokoyama., et al. (2004) Mol Cell Biol. 24(13):5639-49.
Gori F., et al. (2001) J Biol Chem. 276(49):46515-22.

DATA

SDS-PAGE



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