

Recombinant Human WD Repeat Domain 5, His-tagged

Cat. No. WDR5-2734H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanWDR5 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 38.8 kDa (354aa),confirmed by MALDI-TOF.
Species	Human
Source	E.coli
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.
Sequences Of Amino Acids	MGSSHHHHH SSGLVPRGSH MATEEKKPET EAARAQPTPS SSATQSKPTP VKPNYALKFT LAGHTKAVSS VKFSPNGEWL ASSSADKLIK IWGAYDGKFE KTISGHKLG I SDVAWSSDSN LLVSASDDKT LKIWDVSSGK CLKTLKGHSN YVFCCNFPQ SNLIVSGSFD ESVRIWDVKT GKCLKTLP AH SDPVSAVHFN RDGSLIVSSS YDGLCRIWDT ASGQCLKTLI DDDNPPVSFV KFSPNGKYIL AATLDNTLKL WDYSKGKCLK TYTGHKNEKY CIFANFSVTG GKWIVSGSED NLVYIWNLQT KEIVQKLQGH TDVVISTACH PTENIIASAA LENDKTIKLW KSDC
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	WDR5 WD repeat domain 5 [Homo sapiens]
Synonyms	WDR5; WD repeat domain 5; SWD3; BIG-3; WD repeat-containing protein 5; WD-repeat protein 5; BMP2-induced 3-kb gene protein; SWD3, Set1c WD40 repeat protein, homolog; SWD3, Set1c WD40 repeat protein, homolog (S. cerevisiae)
Gene ID	11091
mRNA Refseq	NM_017588
Protein Refseq	NP_060058
MIM	609012
UniProt ID	P61964
Chromosome Location	9q34
Function	contributes_to histone methyltransferase activity (H3-K4 specific); protein binding

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