

## Recombinant Human WD Repeat Domain 5, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Sequences Of Amino Acids</b>	MGSSHHHHHH SSGLVPRGSH MATEEKKPET EAARAQPTPS SSATQSKPTP VKPNYALKFT LAGHTKAVSS VKFSPNGEWL ASSSADKLIK IWGAYDGKFE KTISGHKLG I SDVAWSSDSN LLVSASDDKT LKIWDVSSGK CLKTLKGHSN YVFCCNFNPQ SNLIVSGSFD ESVRIWDVKT GKCLKTLP AH SDPVSAVHFN RDGSLIVSSS YDGLCRIWDT ASGQCLKTLI DDDNPPVSFV KFSPNGKYIL AATLDNTLKL WDYSKGKCLK TYTGHKNEKY CIFANFSVTG GKWIVSGSED NLVYIWNLQT KEIVQKLQGH TDVVISTACH PTENIIASAA LENDKTIKLW KSDC
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.

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<b>Purity</b>	> 95% by SDS – PAGE.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay).
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">WDR5 WD repeat domain 5 [ Homo sapiens ]</a>
<b>Synonyms</b>	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 ( <i>S. cerevisiae</i> )
<b>Gene ID</b>	<a href="#">11091</a>
<b>mRNA Refseq</b>	<a href="#">NM_017588</a>
<b>Protein Refseq</b>	<a href="#">NP_060058</a>
<b>MIM</b>	<a href="#">609012</a>
<b>UniProt ID</b>	<a href="#">P61964</a>
<b>Chromosome Location</b>	9q34
<b>Function</b>	contributes_to histone methyltransferase activity (H3-K4 specific); protein binding

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