

# Recombinant Human WAP four-disulfide core domain 12, His-tagged

**Cat. No.** WFDC12-408H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | WFDC12, 24-111aa, Human, His tag, E.coli                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 24-111 a.a.                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | WFDC12 is a member of the WAP-type four-disulfide core (WFDC) domain family. The WFDC domain, or WAP signature motif, contains eight cysteines forming four disulfide bonds at the core of the protein, and functions as a protease inhibitor. Recombinant human WFDC12 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. |
| <b>Form</b>             | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 1mM DTT                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | 12.1 kDa(111aa) confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSVKEGIEK AGVCPADNVR CFKSDPPQCH<br>TDQDCLGERK CCYLHCGFKC VIPVKELEEG GNKDEDVSRP YPEPGWEAKC<br>PGSSSTRCPQ K                                                                                                                                                                                                                                                            |
| <b>Purity</b>           | >85% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                          |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>             | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.                                                                                                                                        |
| <b>Concentration</b>       | 1 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                    |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>           | WFDC12 WAP four-disulfide core domain 12 [ Homo sapiens ]                                                                                                                                                                                                                                 |
| <b>Official Symbol</b>     | WFDC12                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>            | WFDC12; WAP four-disulfide core domain 12; C20orf122, chromosome 20 open reading frame 122; WAP four-disulfide core domain protein 12; dJ211D12.4; WAP2; whey acidic protein 2; protease inhibitor WAP2; single WAP motif protein 2; putative protease inhibitor WAP12; SWAM2; C20orf122; |
| <b>Gene ID</b>             | 128488                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>         | NM_080869                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | NP_543145                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>                 | 609872                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | Q8WWY7                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 20q12-q13.1                                                                                                                                                                                                                                                                               |
| <b>Function</b>            | peptidase inhibitor activity; serine-type endopeptidase inhibitor activity;                                                                                                                                                                                                               |

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