

Product datasheet for TP302624M

USP5 (NM_003481) Human Recombinant Protein

Product data:

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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human ubiquitin specific peptidase 5 (isopeptidase T) (USP5), transcript variant 2, 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC202624 protein sequence Red =Cloning site Green =Tags(s) |

MAELSEEALLSVLPTIRVPKAGDRVHKDECAFSFDTPESGGLYICMNTFLGFGKQYVERHFNKTGQRVY
LHLRRTTRRPKEEDPATGTGDPPRKKPTRLAIGVEGGFDLSEEFELDEDVKIVILPDYLEIARDGLGGLP
DIVRDRVTSAVEALLSADSASRKQEVQAWDGEVRQVSKHAFSLKQLDNPARIPPCGWKCSKCDMRENLWL
NLTDGSILCGRRYFDGSGGNNHAVEHYRETGYPLAVKLGITITPDGADVSYDEDDMVLDPSLAEHLSHFG
IDMLKMQKTDKTMTELEIDMNQRIGEWELIQESGVPLKPLFGPGYTGIRNLGNSCYLNSVQVLFSDPF
QRKYVDKLEKIFQNAPTDPTQDFSTQVAKLGHLLSGEYSKVPESGDGERVPEQKEVQDGIAPRMFKAL
IGKGHPEFSTNRQQDAQEFFLHLINMVERNCRSENPNVFRFLVEEKIKCLATEKVYQTRVDYIMQLP
VPMDAALNKEELLEYYEKKRQAEEEKMALPELVRAQVPFSSCLEAYGAPEQVDDFWSTALQAKSVAVKTT
RFASFPDYLVIIQIKKFTFGLDWVPKLDVSIEMPEELDISQLRGTGLQPGEEELPDIAPPLVTPDEPKAP
MLDESVIIQLVEMGFPMDACRKAVYYTGNSGAEAMNWMVSHMDDPDFANPLILPGSSGPGSTSAADPP
PEDCVTTIVSMGFSDQALKALRATNNSLERAVDWIFSHIDDLDAEAAMDISEGRSAADSISESVPVGP
VRDGPVKYQLFAFISHMGTSTMCGHYVCHIKKEGRWVIYNDQKVCASEKPPKDLGIYIFYQRVAS

TRTRPLEQKLISEEDLAANDILDYKDDDDK

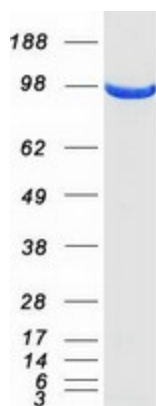
| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 93.1 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |



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| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_003472 |
| Locus ID: | 8078 |
| UniProt ID: | P45974 |
| RefSeq Size: | 3130 |
| Cytogenetics: | 12p13.31 |
| RefSeq ORF: | 2505 |
| Synonyms: | ISOT |
| Summary: | Ubiquitin (see MIM 191339)-dependent proteolysis is a complex pathway of protein metabolism implicated in such diverse cellular functions as maintenance of chromatin structure, receptor function, and degradation of abnormal proteins. A late step of the process involves disassembly of the polyubiquitin chains on degraded proteins into ubiquitin monomers. USP5 disassembles branched polyubiquitin chains by a sequential exo mechanism, starting at the proximal end of the chain (Wilkinson et al., 1995 [PubMed 7578059]).[supplied by OMIM, Mar 2010] |
| Protein Families: | Druggable Genome, Protease |

Product images:



Coomassie blue staining of purified USP5 protein (Cat# [TP302624]). The protein was produced from HEK293T cells transfected with USP5 cDNA clone (Cat# [RC202624]) using MegaTran 2.0 (Cat# [TT210002]).