

## Product datasheet for PH302624

### USP5 (NM\_003481) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	USP5 MS Standard C13 and N15-labeled recombinant protein (NP_003472)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202624
Predicted MW:	93.3 kDa
Protein Sequence:	>RC202624 protein sequence Red=Cloning site Green=Tags(s)

MAELSEEALLSVLPTIRVPKAGDRVHKDECAFSFDTPSEGGLYICMNTFLGFGKQYVERHFNKTGQRVY  
LHLRRTTRPKKEEDPATGTGDPKPKPTRLAIGVEGGFDLSEKFELEDVIVILPDYLEIARDLGGGLP  
DIVRDRVTSVAEALLSADSASRKQEVQAWDGEVRQVSKHAFSLKQLDNPARIPPCGWKCSKCDMRENLWL  
NLTDGSIICGRRYFDGSGGNHVAHEHYRETGYPLAVKLGITITPDGADVYSYDEDDMVLDPSLAEHLSHFG  
IDMLKMQKTDKTMTELEIDMNQRIGEWELIQESGVPLKPLFGPGYTGIRNLGNSCYLNSVVQVLFSPDF  
QRKYVDKLEKIFQNAPTDPTQDFSTQVAKLGHLLSGEYSKVPVPSGDGERVPEQKEVQDGIAPRMFKAL  
IGKGFPEFSTNRQQAQEFFLHLINMVERNCRSSNPNEVFRFLVEEKIKCLATEKVKYTORVDYIMQLP  
VPMDAALNKEELLEYYEKKRQAEKEMALPELVRAQVPFSSCLEAYGAPEQVDDFWSTALQAKSVAVKTT  
RFASFDPYLVIIQIKKFTFGLDWVPKLDVSIEMPEELDISQLRGTGLQPGEEELPDIAPPLVTPDEPKAP  
MLDESVIQIVEMGFPMACRKA VYYTGN SGAE AAMNWVMSHMDDPDFANPLILPGSSGPGSTSAADPP  
PEDCVTTIVSMGFSRDQALKALRATNNSLERAVDWIFSHIDDLDAEAAMDISEGRSAADSISESVPVGP  
VRDGPQYQLFAFISHMGTSTMCGHYVCHIKKEGRWVIYNDQKVCASEKPPKDLGYIFYQYRVAS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_003472</a></u>



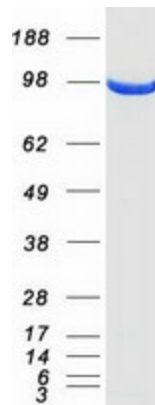
[View online >](#)

RefSeq Size: 3130  
RefSeq ORF: 2505  
Synonyms: ISOT  
Locus ID: 8078  
UniProt ID: [P45974](#)  
Cytogenetics: 12p13.31

**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]).