

## Product datasheet for TP319080M

### OPLAH (NM\_017570) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human 5-oxoprolinase (ATP-hydrolysing) (OPLAH), 100 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC219080 representing NM\_017570  
Red=Cloning site Green=Tags(s)

MGSPEGRFHFAIDRGGTFTDVFAQCPCGGHVRVLKLLSEDPANYADAPTEGIRRILEQEAGMILLPRDQPLD  
 SSHIASIRMGTTVATNALLERKGERVALLVTRGFRDLLHIGTQARGDLFDLAVPMPEVLYEEVLEVDERV  
 VLHRGEAGTGTPVKGRTGDLLEVQQPVDLGALRGKLEGLLSRGIKSLAVLMHSYWAQHEQQVGVVLARE  
 LGFTHVLSSEAMPVVRIVPRGHTACADAYLTPAIQRYVQGFRCRGFQGLKDVQVLFMRSDGGLAPMDTF  
 SGSSAVLSGPAGGVGYATTYQQEGGQPVIGFDMGGTSTDVSRVAGEFEHVFEASTAGVTLQAPQLDIN  
 TVAAGGGSRLFFRSGLFVVGPEAGAHGPACYRKGGPVTVDANLVLGRLLPASFPICIFGPGENQPLSP  
 EASRKALEAVATEVNSFLTNGPCPASPLSLEEVAMGFVRVANEAMCRPIRALTQARGHDPSAHVLACFGG  
 AGGQHACAIARALGMDTVHIHRHSGLLSALGLALADVHEAQEPCSLLYAPETVQLDQRLSRLEEQCVD  
 ALQAQGFPRSQISTESFLHLRYQGTDCALMVSAHQHPATARSPRAGDFGAAFVERYMREFGFVIPERPVV  
 VDDVRVGRGTGRSGLRLEDAPKAQTGPPRVDKMTQCYFEGGYQETPVYLLAELGYGHKLHGPCLIIDSNST  
 ILVEPGCAEVTKTGDICISVGAEVPGTGVPQLDPIQLSIFSHRFMSIAEQMGRILQRTAISTNIKERLD  
 FSCALFGPDGGLVSNAPHIPVHLGAMQETVQFQIHLGADLHPGDVLLSNHPSAGGSHLPDLTVITPVFW  
 PGQTRPVFVYASRGHHADIGGITPGSMPPHSTMLQQEGAVFLSFKLVQGGVFQEEAVTEALRAPGKVPNC  
 SGTRNLHDNLSDLRAQVAANQKGIQLVGELIGQYGLDVVQAYMGHIQANAELAVRDMLRAFGTSRQARGL  
 PLEVSSDHMDGSPIRLRVQISLSQGSVDFSGTGPEVFGNLNAPRAVTLALYICLRCLVGRDIPLN  
 QGCLAPVRVVIPRGSILDPSPEAAVGGNVLTQRVVDVILGAFGACAAASQGCMMNVTLGNAHMGYYETV  
 AGGAGAGPSWHGRSGVHSHMTNTRITDPEILESRYPVILRRFELRRGSGRGRFRGGDGVTTRELLFREEA  
 LLSVLTERRAFPRPYGLHGGEPGARGLNLLIRKNGRTVNLGGKTSVTVPYVPGDVFLHTPGGGGYGDPEDPA  
 PPPGSPQALAFPEHGSVYERRAQEAV

SGPTRRRRLEQKLISEEDLAANDILDYKDDDDKV

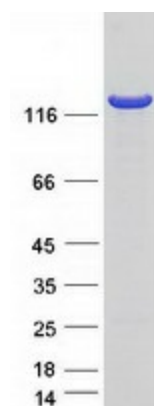
**Tag:** C-Myc/DDK  
**Predicted MW:** 137.3 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method



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|                          |   |
|--------------------------|---|
| <b>Purity:</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining   |
| <b>Buffer:</b>           | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  |
| <b>Preparation:</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.  |
| <b>Note:</b>             | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.  |
| <b>Storage:</b>          | Store at -80°C.   |
| <b>Stability:</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.   |
| <b>RefSeq:</b>           | <a href="#">NP_060040</a>   |
| <b>Locus ID:</b>         | 26873   |
| <b>UniProt ID:</b>       | <a href="#">O14841</a>  |
| <b>RefSeq Size:</b>      | 3944  |
| <b>Cytogenetics:</b>     | 8q24.3  |
| <b>RefSeq ORF:</b>       | 3864  |
| <b>Synonyms:</b>         | 5-Opase; OPLA; OPLAHD   |
| <b>Summary:</b>          | The protein encoded by this gene acts as a homodimer, using ATP hydrolysis to catalyze the conversion of 5-oxo-L-proline to L-glutamate. Defects in this gene are a cause of 5-oxoprolinase deficiency (OPLAHD). [provided by RefSeq, Jun 2012] |
| <b>Protein Pathways:</b> | Glutathione metabolism  |

### Product images:



Coomassie blue staining of purified OPLAH protein (Cat# [TP319080]). The protein was produced from HEK293T cells transfected with OPLAH cDNA clone (Cat# [RC219080]) using MegaTran 2.0 (Cat# [TT210002]).