

## Product datasheet for **TP319080L**

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

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human 5-oxoprolinase (ATP-hydrolysing) (OPLAH), 1 mg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC219080 representing NM\_017570  
**Red**=Cloning site **Green**=Tags(s)

MGSPEGRFHFAIDRGGTFTDVFAQCPCGGHVRVLKLLSEDPANYADAPTEGIRRILEQEAGMILLPRDQPLD  
SSHASIRMGTTVATNALLERKGERVALLVTRGFRDLLHIGTQARGDLFDLAVPMPEVLYEEVLEVDERV  
VLHRGEAGTGTPVKGRTGDLLEVQQPVDLGALRGKLEGLLSRGIKSLAVLMHSYWAQHEQQVGVVLARE  
LGFTHVLSSEAMPVVRIVPRGHTACADAYLTPAIQRYVQGFRCRGFQGLKDVQVLFMRSDGGLAPMDTF  
SGSSAVLSGPAGGVGYSAATYQQEGGQPVIGFDMGGTSTDVSRVAGEFEHVFEASTAGVTLQAPQLDIN  
TVAAGGGSRLFFRSGLFVVGPEAGAHGPACYRKGPPVTVDANLVLGRLLPASFPICIFGPGENQPLSP  
EASRKALEAVATEVNSFLTNGPCPASPLSLEEVAMGFVRVANEAMCRPIRALTQARGHDPSAHVLACFGG  
AGGQHACAIARALGMDTVHIHRHSGLLSALGLALADVHEAQEPCSLLYAPETVQLDQRLSRLEEQCVD  
ALQAQGFPRSQISTESFLHLRYQGTDCALMVSAHQHPATARSPRAGDFGAAFVERYMREFGFVIPERPVV  
VDDVRVVRGTGRSGLRLEDAPKAQTGPPRVDKMTQCYFEGGYQETPVYLLAELGYGHKLHGPCLIIDSNST  
ILVEPGCAEVTKTGDICISVGAEVPQTVGPQLDPIQLSIFSHRFMSIAEQMGRILQRTAISTNIKERLD  
FSCALFGPDGGLVSNAPHIPVHLGAMQETVQFQIHLGADLHPGDVLLSNHPSAGGSHLPDLTVITPVFW  
PGQTRPVFVYASRGHHADIGGITPGSMPPHSTMLQQEGAVFLSFKLVQGGVFQEEAVTEALRAPGKVPNC  
SGTRNLHDNLSDLRAQVAANQKGIQLVGELIGQYGLDWWQAYMGHIQANAELAVRDMMLRAFGTSRQARGL  
PLEVSSDHMDGSPIRLRVQISLSQGSVDFSGTGPEVFGNLNAPRAVTLALYICLRCLVGRDIPLN  
QGCLAPVRVVIPRGSILDPSPEAAVGGNVLTQRVVDVILGAFGACAAASQGCMMNNVTLGNAHMGYETV  
AGGAGAGPSWHGRSGVHSHMTNTRITDPEILESRYPVILRRFELRRGSGRGRFRGGDGVTTRELLFREEA  
LLSVLTERRAFRPYGLHGGEPGARGLNLLIRKNGRTVNLGGKTSVTVPYVPGDVFLHTPGGGGYGDPEDPA  
PPPGSPPQALAFPEHGSVYERRAQEAV

**SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV**

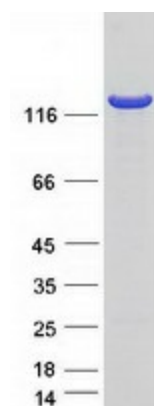
**Tag:** C-Myc/DDK  
**Predicted MW:** 137.3 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method



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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]).