

Recombinant Full Length Human OPLAH Protein, C-Flag-tagged

Cat. No. OPLAH-1898HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human OPLAH Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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).
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	137.3 kDa
AA Sequence	MGSPEGRFHFFAIDRGGTFTDVFAQCPGGHVRVLKLLSEDPANYADAPTEGIRRILEQ EAGMLLPRDQPLD SSHIASIRMGTTVATNALLERKGERVALLVTRGFRDLLHIGTQA RGDLFDLAVPMPEVLYEEVLEVDERV VLHRGEAGTGTPVKGRTGDLLEVQQPVDL GALRGKLEGLLSRGIRSLAVVLMHSYTWAQHEQQVGVLARE LGFTHVSLSSEAMP MVRIVPRGHTACADAYLTPAIQRYVQGFCRGFQGGQLKDVQVLFMRSDGGLAPMDT F SGSSAVLSGPAGGVVGYSATTYQQEGGQPVIGFDMGGTSTDVSRYAGEFEHVFE ASTAGVTLQAPQLDIN TVAAGGGSRLFFRSGLFVVGPESAGAHPGPACYRKGGPV TVTDANLVLGRLLPASFPCIFGPGENQPLSP EASRKALEAVATEVNSFLTNGPCPAS PLSLEEVAMGFVRVANEAMCRPIRALTQARGHDPSAHVLACFGG AGGQHACAIAR

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ALGMDTVHIHRHSGLLSALGLALADVHEAQEPCSLLYAPETFVQLDQRLSRLEEQC
 VD ALQAQGFPRSQISTESFLHLRYQGTDCALMVSAHQHPATARSPRAGDFGAAFV
 ERYMREFGFVIPERPVV VDDVRVRGTGRSGLRLEDAPKAQTGPPRVDKMTQCYFE
 GGYQETPVYLLAELGYGHKLHGPCLIIDSNST ILVEPGCQAEVTKTGDICISVGAIEVP
 GTVGPQLDPIQLSIFSHRFMSIAEQMGRILQRTAISTNIKERLD FSCALFGPDGGLVS
 NAPHIPVHLGAMQETVQFQIQHLGADLHPGDVLLSNHPSAGGSHLPDLTVITPVFW
 PGQTRPVFYVASRGHHADIGGITPGSMPPHSTMLQQEGAVFLSFKLVQGGVFQEEA
 VTEALRAPGKVPNC SGTRNLHDNLSDLRAQVAANQKGIQLVGELIGQYGLDVVQAY
 MGHQANAELAVRDMLRAFGTSRQARGL PLEVSSDHMDDGSPIRLRVQISLSQGS
 AVFDFSGTGPEVFGNLNAPRAVTL SALIYCLRCLVGRDIPLN QGCLAPVRVVIPRGS
 LDPSPEAAVVGGNVLT SQRVVDVILGAFGACAASQGCMNNVT LGNAHMGYYETV A
 GGAGAGPSWHGRSGVHSHMTNTRITDPEILESRYPVILRRFELRRGSGGRGRFRG
 GDGV TRELLFREEA LLSVLTERRAFRPYGLHGGE PGARGLNLLIRKNGRTVNLGGK
 TSVTVYPGDVFCLHTPGGGGYGDPEDPA PPPGSPPQALAFPEHG SVYEYRRAQEA
 V SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Glutathione metabolism

Full Length
Full L.

GENE INFORMATION

Gene Name [OPLAH 5-oxoprolinase, ATP-hydrolysing \[Homo sapiens \(human\) \]](#)

Official Symbol [OPLAH](#)

Synonyms OPLA; OPLAHD; 5-Opase

Gene ID [26873](#)

mRNA Refseq [NM_017570.5](#)

Protein Refseq [NP_060040.1](#)

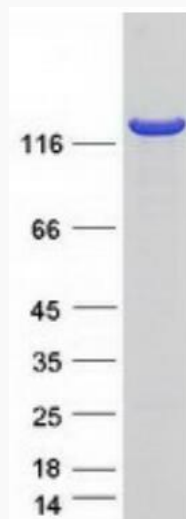
MIM [614243](#)

UniProt ID [O14841](#)

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Coomassie blue staining of purified OPLAH protein.

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