

## Product datasheet for PH305692

### Alkaline Phosphatase (ALPL) (NM\_000478) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ALPL MS Standard C13 and N15-labeled recombinant protein (NP_000469)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205692
Predicted MW:	57.3 kDa
Protein Sequence:	>RC205692 protein sequence Red=Cloning site Green=Tags(s)
	MISPFVLVAIGTCLTNSLVPEKEKDPKYWRDQAQETLKYALELQKLNTNVAKNVIMFLGDGMGVSTVTAA RILKQQLHHNPGEETRLEMDKFPFVALSKTYNTNAQVPDSAGTATAYLCGVKANEGTVGVSAATERSRCN TTQGNVETSILRWAKDAGKSVGIVTTTRVNHATPSAAYAHSADRDWYSDNEMPPEALSQGCKDIAYQLMH NIRDIDVIMGGGRKMYPKNKTDVEYESDEKARGTRLDGLDLVDTWKSFKPRYKHSFIWNRTLLTDP HNVDYLLGLFEPGDMQYELNRNNVTDPSLSEMVVVAIQILRKNPKGFFLLVEGGRIDHGHHEGKAKQALH EAVEMDRAIGQAGSLTSSEDTLTVVTADHSHVFTFGGYTPRGNSIFGLAPMLSDTDKKPFTAILYGNPGP YKVVGGGERENSMVDYAHNNYQAQSAVPLRHETHGGEDVAVFSKGPMAHLLHGVHEQNYVPHVMAYAACI GANLGHCAPASSAGSLAAGPLLLALALYPLSVLF
	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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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>NP_000469</u>
RefSeq Size:	2606
RefSeq ORF:	1572



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**Synonyms:** AP-TNAP; APTNAP; HOPS; HPPA; HPPC; HPPI; HPPO; TNALP; TNAP; TNSALP

**Locus ID:** 249

**UniProt ID:** [P05186](#), [A0A024RAB4](#)

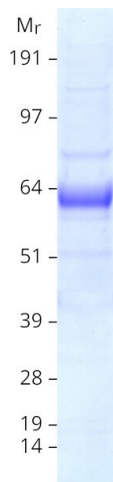
**Cytogenetics:** 1p36.12

**Summary:** This gene encodes a member of the alkaline phosphatase family of proteins. There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The first three are located together on chromosome 2, while the tissue non-specific form is located on chromosome 1. The product of this gene is a membrane bound glycosylated enzyme that is not expressed in any particular tissue and is, therefore, referred to as the tissue-nonspecific form of the enzyme. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme may play a role in bone mineralization. Mutations in this gene have been linked to hypophosphatasia, a disorder that is characterized by hypercalcemia and skeletal defects. [provided by RefSeq, Oct 2015]

**Protein Families:** Druggable Genome

**Protein Pathways:** Folate biosynthesis, Metabolic pathways

### Product images:



Coomassie blue staining of purified ALPL protein (Cat# [TP305692]). The protein was produced from HEK293T cells transfected with ALPL cDNA clone (Cat# [RC205692]) using MegaTran 2.0 (Cat# [TT210002]).