

Recombinant Human ACP2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ACP2-2666H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ACP2 MS Standard C13 and N15-labeled recombinant protein (NP_001601) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene belongs to the histidine acid phosphatase family, which hydrolyze orthophosphoric monoesters to alcohol and phosphate. This protein is localized to the lysosomal membrane, and is chemically and genetically distinct from the red cell acid phosphatase. Mice lacking this gene showed multiple defects, including bone structure alterations, lysosomal storage defects, and an increased tendency towards seizures. An enzymatically-inactive allele of this gene in mice showed severe growth retardation, hair-follicle abnormalities, and an ataxia-like phenotype. Alternatively spliced transcript variants have been found for this gene. A C-terminally extended isoform is also predicted to be produced by the use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism.
Molecular Mass	44.45 kDa
AA Sequence	MAGKRXXGWSRAALLQLLLGVNLVVMPPTRARSLRFVTLTRYHGDSPVKTYPKDP YQEEWPQGGFGLTKEGMLQHWELGQALRQRYHGFLNTSYHRQEVYVRSTDFDR

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TLMSAEANLAGLFPPNGMQRFNPNISWQPIPVHTVPITEDRLLKFPLGPCPRYEQLQ
 NETRQTPEYQNESSRNAQFLDMVANETGLTDLTLETVWNVYDTLFC EQTHGLRLPP
 WASPQTMQRLSRLKDFSFRFLFGIYQQA EKARLQGGVLLAQIRKNLTLMATTSQLPK
 LLVYSAHDTTLVALQMALDVYNGEQAPYASCHIFELYQEDSGNFSVEMYFRNESDK
 APWPLSLPGCPHRCPLQDFLRLTEPVVPKDWQQECQLASGPADTEVIVALAVCGSI
 LFLIVLLLTVLFRMQAQQPPGYRHVADGEDHATRTRPLEQKLISEEDLAANDILDYKD
 DDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ACP2 acid phosphatase 2, lysosomal [Homo sapiens (human)]

Official Symbol ACP2

Synonyms ACP2; acid phosphatase 2, lysosomal; lysosomal acid phosphatase; LAP;

Gene ID 53

mRNA Refseq NM_001610

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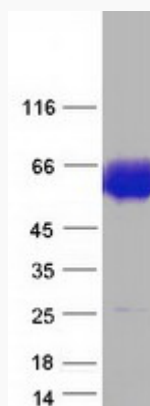
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Protein Refseq NP_001601

MIM 171650

UniProt ID P11117

SDS-PAGE



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