

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

Cat. No. PHYH-3396H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PHYH MS Standard C13 and N15-labeled recombinant protein (NP_006205) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is a member of the PhyH family and encodes a peroxisomal protein that is involved in the alpha-oxidation of 3-methyl branched fatty acids. Specifically, this protein converts phytanoyl-CoA to 2-hydroxyphytanoyl-CoA. Mutations in this gene have been associated with Refsum disease (RD) and deficient protein activity has been associated with Zellweger syndrome and rhizomelic chondrodysplasia punctata. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Molecular Mass	38.5 kDa
AA Sequence	MEQLRAAARLQIVLGH LGRPSAGAVVAHPTSGTISSASFHPQQFQYTLDNNVLTLEQ RKFYEENGFLVIKNLVPDADIQRFRNEFEKICRKEVKPLGLTVMRDVTISKSEYAPSE KMITKVQDFQEDKELFRYCTLPEILKYVECFTGPNIMAMHTMLINKPPDSGKKTSRHP LHQLHYFPFRPSDLIVCAWTAMEHISRNNGCLVVLPGTHKGSLKPHDYPKWEGGV NKMFHGIQDYEENKARVHLVMEKGDTVFFHPLLIHGSGQNKTQGFRKAISCHFASA DCHYIDVKGTSQENIEKEVVGIAHKFFGAENSVNLKDIWMFRARLVKGERTNLTRTR

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PLEQKLISEEDLAANDILDYKDDDDKV

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 [PHYH phytanoyl-CoA 2-hydroxylase \[Homo sapiens \(human\) \]](#)

Official Symbol [PHYH](#)

Synonyms PHYH; phytanoyl-CoA 2-hydroxylase; phytanoyl CoA hydroxylase, phytanoyl CoA hydroxylase (Refsum disease); phytanoyl-CoA dioxygenase, peroxisomal; PAHX; PHYH1; phytanoyl CoA dioxygenase; RD; Refsum disease; phytanic acid oxidase; phytanoil-CoA alpha hydroxylase; phytanoyl-CoA alpha-hydroxylase; phytanoyl-CoA 2 oxoglutarate dioxygenase; LN1; LNAP1;

Gene ID [5264](#)

mRNA Refseq [NM_006214](#)

Protein Refseq [NP_006205](#)

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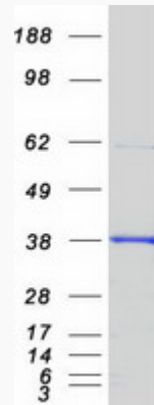
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MIM 602026

UniProt ID O14832

SDS-PAGE



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