

Recombinant Human ALDH16A1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ALDH16A1-1609H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ALDH16A1 MS Standard C13 and N15-labeled recombinant protein (NP_699160) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the aldehyde dehydrogenase superfamily. The family members act on aldehyde substrates and use nicotinamide adenine dinucleotide phosphate (NADP) as a cofactor. This gene is conserved in chimpanzee, dog, cow, mouse, rat, and zebrafish. The protein encoded by this gene interacts with maspardin, a protein that when truncated is responsible for Mast syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	85.1 kDa
AA Sequence	MAATRAGPRAREIFTSLEYGPVPESHACALAWLDTQDRCLGHYVNGKWLKPEHRN SVPCQDPITGENLASCLQAQAEDVAAAVEAARMAFKGWSAHPGVVRAQHLTRLAE VIQKHQRLWLTLTSLVTGRAVREVRDGDVQLAQQLLHYHAIQASTQEEALAGWPEM GVIGLILPPTFSFLEMMWRICPALAVGCTVVALVPPASPAPLLLAQLAGELGPFPGILN VVSGPASLVPILASQPGIRKVAFCGAPEEGRALRRSLAGECAELGLALGTESLLLLTD TADVDSAVEGVVDAAWSDRGPGGLRLLIQESVWDEAMRRLQERMGRRLRSGRGLD

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GAVDMGARGAAACDLVQRFVREAQSQGAQVFQAGDVPSEPFYPPTLVSNLPPAS
 PCAQVEVPWPVVVASPFRTAKEALLVANGTPRGGSASVWSERLGQALELGYGLQV
 GTVWINAHGLRDPSVPTGGCKESGCSWHGGPDGLYEYLRPSGTPARLSCLSKNLN
 YDTFGLAVPSTLPAGPEIGPSPAPPYGLFVGGRFQAPGARSSRPIRDSSGNLHGYV
 AEGGAKDIRGAVEAAHQAFPGWAGQSPGARAALLWALAAALERRKSTLASRLERQ
 GAELKAAEALEVELSARRLRAWGARVQAQGHTLQVAGLRGPVLRRLREPLGVLAVVC
 PDEWPLLAFFVSLAPALAYGNTVVMVPSAACPLLALEVCQDMATVFPAGLANVVTG
 DRDHLTRCLALHQDVQAMWYFGSAQGSQFVEWASAGNLKPVWASRGCPRAWQDQ
 EAEGAGPELGLRVARTKALWLPMGDTRPLEQKLISEEDLAANDILDYKDDDDKV

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 ALDH16A1 aldehyde dehydrogenase 16 family member A1 [Homo sapiens (human)]

Official Symbol ALDH16A1

Synonyms ALDH16A1; aldehyde dehydrogenase 16 family, member A1; aldehyde dehydrogenase family 16 member A1; MGC10204;

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Gene ID	126133
mRNA Refseq	NM_153329
Protein Refseq	NP_699160
MIM	613358
UniProt ID	Q8IZ83
SDS-PAGE	