

## Recombinant Human ACAD8 Protein, GST-Tagged

**Cat. No.** ACAD8-129H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human ACAD8 full-length ORF ( AAH01964, 1 a.a. - 415 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | This gene encodes a member of the acyl-CoA dehydrogenase family of enzymes that catalyze the dehydrogenation of acyl-CoA derivatives in the metabolism of fatty acids or branch chained amino acids. The encoded protein is a mitochondrial enzyme that functions in catabolism of the branched-chain amino acid valine. Defects in this gene are the cause of isobutyryl-CoA dehydrogenase deficiency.[provided by RefSeq, Nov 2009]                                                           |
| <b>Molecular Mass</b>   | 71.39 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | <p>MLWSGCRRFGARLGCLPGGLRVLVQTGHRSLTSCIDPSMGLNEEQKEFQKVAFDF</p> <p>AAREMAPNMAEWDQKELFPVDVMRKAQQLGFGGVYIQTDVGGSGLSRLDTSVIFE</p> <p>ALATGCTSTTAYISIHNMCAWMIDSFGNEEQRHKFCPLCTMEKFASYCLTEPGSGS</p> <p>DAASLLTSAKKQGDHYILNGSKAFISGAGESDIYVVMCRTGGLGPKGISCIVVEKGTP</p> <p>GLSFGKKEKKVGWNSQPTRAVIFEDCAVPVANRIGSEGQGFLIAVRGLNGGRINIAS</p> <p>CSLGAAHASVILTRDHLNVRKQFGEPLASNQYLQFTLADMATRLVAARLMVRNAAV</p> <p>ALQEERKDAVALCSMAKLFATDECFAICNQALQMHHGGYGYLKDYAVQQYVVRDSRV</p> <p>HQILEGSNEVMRILISRSLLQE</p> |

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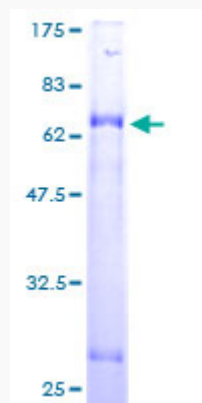
 45-1 Ramsey Road, Shirley, NY 11967, USA

|                         |                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                          |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                     |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                   |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                   |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>        | ACAD8 acyl-CoA dehydrogenase family, member 8 [ Homo sapiens ]                                                                                                                                                                                             |
| <b>Official Symbol</b>  | ACAD8                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>         | ACAD8; acyl-CoA dehydrogenase family, member 8; acyl Coenzyme A dehydrogenase family, member 8; isobutyryl-CoA dehydrogenase, mitochondrial; activator-recruited cofactor 42 kDa component; acyl-Coenzyme A dehydrogenase family, member 8; ARC42; ACAD-8; |
| <b>Gene ID</b>          | 27034                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>      | NM_014384                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>   | NP_055199                                                                                                                                                                                                                                                  |
| <b>MIM</b>              | 604773                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>       | Q9UKU7                                                                                                                                                                                                                                                     |

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