

Fatty acid desaturase 2 Recombinant Protein | FADS2 recombinant protein

Recombinant Human Fatty acid desaturase 2

CATALOG # AAA114928	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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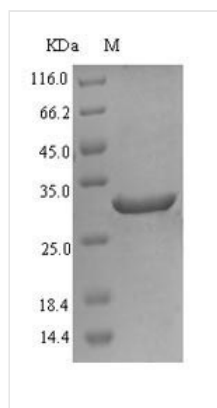
PRODUCT SYNONYMS

Fatty acid desaturase 2; Recombinant Human Fatty acid desaturase 2; Acyl-CoA 6-desaturase; Delta(6) fatty acid desaturase; D6D; Delta(6) desaturase; Delta-6 desaturase; FADS2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-131aa; Partial
Sequence	MGKGGNQGEG AAEREVSPT FSWEEIQKHNLRTDRWLVID RKVYNITKWS IQHPGGQRVI GHYAGEDATD AFRAFHPDLE FVGKFLKPLL IGELAPEEPS QDHGKNSKIT EDFRALRKTA EDMNLFKTNH V
Species	Homo sapiens (Human)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for FADS2 recombinant protein	Component of a lipid metabolic pathway that catalyzes biosynthesis of highly unsaturated fatty acids (HUFA) from precursor essential polyunsaturated fatty acids (PUFA) linoleic acid (LA) (18:2n-6) and alpha-linolenic acid (ALA) (18:3n-3). Catalyzes the first and rate limiting step in this pathway which is the desaturation of LA (18:2n-6) and ALA (18:3n-3) into gamma-linolenic acid (GLA) (18:3n-6) and stearidonic acid (18:4n-3) respectively and other desaturation steps. Highly unsaturated fatty acids (HUFA) play pivotal roles in many biological functions. It catalyzes as well the introduction of a cis double bond in palmitate to produce the mono-unsaturated fatty acid sapienate, the most abundant fatty acid in sebum.
Product Categories/Family for FADS2 recombinant protein	Cardiovascular

References	"Cloning, expression, and nutritional regulation of the mammalian Delta-6 desaturase." Cho H.P., Nakamura M.T., Clarke S.D. J. Biol. Chem. 274:471-477(1999)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	527498295
NCBI GeneID	9415
NCBI Accession #	NP_001268430.1
NCBI GenBank Nucleotide #	NM_001281501.1
UniProt Accession #	O95864; Q6MZQ7; Q96H07; Q96SV8; Q9H3G3; Q9Y3X4; A8K2M6; B7Z634
Molecular Weight	30.9 kDa
NCBI Official Full Name	fatty acid desaturase 2 isoform 2
NCBI Official Synonym Full Names	fatty acid desaturase 2
NCBI Official Symbol	FADS2
NCBI Official Synonym Symbols	D6D; DES6; TU13; FADSD6; LLCDL2; SLL0262
NCBI Protein Information	fatty acid desaturase 2
UniProt Protein Name	Fatty acid desaturase 2
UniProt Gene Name	FADS2
UniProt Synonym Gene Names	D6D; Delta(6) desaturase; Delta-6 desaturase
UniProt Entry Name	FADS2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.