

3-hydroxyacyl-CoA dehydratase PASTICCINO 2B (PAS2B), Recombinant Protein

Cat *RP12811*

Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

Species

Oryza sativa subsp. *japonica* (Rice)

Full Product Name

Recombinant *Oryza sativa* subsp. *japonica* 3-hydroxyacyl-CoA dehydratase PASTICCINO 2B (PAS2B)

Product Gene Name

PAS2B recombinant protein

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

MTGVGSAVRR LYLSVYNWAV FFGWAQVLYY AVTTLLES GH EAVYAAVERP LQFAQTAAFL EILHGLVGLV
RSPVSATLPQ IGSRLFLTGW ILWSFPETHS HILVTSLVIS WSITEIIRYS FFGMKETFGF APSWLLWLRY
STFMVLYPTG ISSEVGLIYI ALPYMKATEK YCLRMPNKNW FSFDFS YASI LSLAVYVPGS PHMFTYMLAQ
RKKALAKAKA A

Sequence Positions

1-221aa; full length protein

Format

Liquid containing glycerol

Host

Cell Free Expression

Molecular Weight

25,017 Da

Storage

Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

NCBI Accession

Q5ZEJ0.1

NCBI GI

75113329

NCBI Official Full Name

Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase PASTICCINO 2B

UniProt Gene Name

PAS2B

UniProt Synonym Gene Names

HACD; PAS2B

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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UniProt Protein Name

Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase PASTICCINO 2B

UniProt Synonym Protein Names

3-hydroxyacyl-CoA dehydratase PASTICCINO 2B; HACD; PAS2B; Protein tyrosine phosphatase-like protein

UniProt Entry Name

HACDB_ORYSJ

UniProt Primary Accession

Q5ZEJ0

UniProt Secondary Accession

A0A0P0UY45; A2ZPA6; B9ESW4

UniProt Comments

Catalyzes the third of the four reactions of the long-chain fatty acids elongation cycle. This endoplasmic reticulum-bound enzymatic process, allows the addition of two carbons to the chain of long- and very long-chain fatty acids/VLCFAs per cycle. This enzyme catalyzes the dehydration of the 3-hydroxyacyl-CoA intermediate into trans-2,3-enoyl-CoA, within each cycle of fatty acid elongation. Thereby, it participates in the production of VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. May be an anti-phosphatase that prevents CDKA-1 dephosphorylation and activation. Involved in the hormonal control of cell division and differentiation. Required for proliferation control of meristematic and non-meristematic cells. Negative regulator of the cell cycle.

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