

LCMT1 recombinant protein

LCMT1, Active

CATALOG # AAA73011	HOST Sf9 insect cells using baculovirus	APPLICATIONS Methyltransferase Assay
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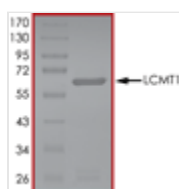
PRODUCT SYNONYMS

LCMT1; Active; LCMT1 recombinant protein

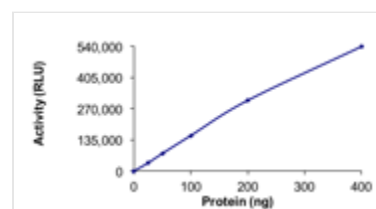
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Sequence Positions	Full length
Sequence Length	1374
Applicable Applications for LCMT1 recombinant protein	Methyltransferase Assay
Species	Human
Tag	GST tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for LCMT1 recombinant protein	Description: Recombinant full-length human LCMT1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: Leucine carboxyl methyltransferase 1 (LCMT1) exclusively methylates the carboxyl group of leucine-309 in the catalytic subunit of protein phosphatase 2A (1). LCMT1 is essential for normal progression through mitosis and cell survival. Knocking-down LCMT1 leads to reduced formation of PP2A heterodimers and increased apoptosis (2). LCMT1 also regulates the association of PP2A and its substrate, Tau protein, with plasma membrane in neuroblastoma cells. Decreased level of PP2A methylation is found in Alzheimer disease (3).
Product Categories/Family for LCMT1 recombinant protein	Enzymes; Active Methyltransferases

References	1. De Baere, I., et al. Purification of porcine brain protein phosphatase 2A leucine carboxyl methyltransferase and cloning of the human homologue. <i>Biochemistry</i> . 38 (50):16539-47, 1999. 2. Lee, J.A., et al. Leucine carboxyl methyltransferase-1 is necessary for normal progression through mitosis in mammalian cells. <i>J Biol Chem</i> . 282 (42):30974-84, 2007. 3. Sontag, J.M., et al. Leucine carboxyl methyltransferase 1 (LCMT1)-dependent methylation regulates the association of protein phosphatase 2A and Tau protein with plasma membrane microdomains in neuroblastoma cells. <i>J Biol Chem</i> . 288 (38):27396-405, 2013.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	74048433
NCBI GeneID	51451
NCBI Accession #	NM_016309.2
NCBI GenBank Nucleotide #	NM_016309
UniProt Accession #	Q9UIC8; Q53FC5; Q96CI5; Q9H6I9; Q9NTG4; Q9Y378; A6NL89; A8K770
Molecular Weight	63 kDa
NCBI Official Full Name	Homo sapiens leucine carboxyl methyltransferase 1 (LCMT1), transcript variant 1, mRNA
NCBI Official Synonym Full Names	leucine carboxyl methyltransferase 1
NCBI Official Symbol	LCMT1
NCBI Official Synonym Symbols	LCMT; PPMT1; CGI-68
NCBI Protein Information	leucine carboxyl methyltransferase 1
UniProt Protein Name	Leucine carboxyl methyltransferase 1
UniProt Gene Name	LCMT1
UniProt Synonym Gene Names	LCMT

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.