

Lysosomal acid lipase/cholesteryl ester hydrolase (LIPA) Recombinant Protein | LIPA recombinant protein

Recombinant Human Lysosomal acid lipase/cholesteryl ester hydrolase (LIPA)

CATALOG # AAA18510	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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PRODUCT SYNONYMS

Lysosomal acid lipase/cholesteryl ester hydrolase (LIPA); Recombinant Human Lysosomal acid lipase/cholesteryl ester hydrolase (LIPA); Cholesteryl esterase; Lipase A; Sterol esterase; LIPA 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	22-399aa; Full Length of Mature Protein
Sequence	SGGKLTAVDP ETNMNVSEII SYWGFPSEEEY LVETEDGYIL CLNRIPHGRK NHSDKGPKPV VFLQHGLLAD SSNWVTNLAN SSLGFILADA GFDVWMGNSR GNTWSRKHKT LSVSQDEFWA FSYDEMAKYD LPASINFILN KTGQEQVYYV GHSQGTIGF IAFSQIPELA KRIKMFFALG PVASVAFCTS PMAKLGRLPD HLIKDLFGDK EFLPQSAFLK WLGTHVCTHV ILKELCGNLC FLLCGFNERN LNMSRVDVYT THSPAGTSVQ NMLHWSQAVK FQKFQAFDWG SSAKNYFHYN QSYPTYNVK DMLVPTAVWS GGHDWLADVY DVNILLTQIT NLVFHESIPE WEHLDFIWGL DAPWRLYNKI INLMRKYQ
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

SDS-PAGE of mammalian cell derived, His-tagged human LIPA recombinant protein

ADDITIONAL INFORMATION

Related Product Information for LIPA recombinant protein	Crucial for the intracellular hydrolysis of cholesteryl esters and triglycerides that have been internalized via receptor-mediated endocytosis of lipoprotein particles. Important in mediating the effect of LDL (low density lipoprotein) uptake on suppression of hydroxymethylglutaryl-CoA reductase and activation of endogenous cellular cholesteryl ester formation.
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Product Categories/Family for LIPA recombinant protein	Metabolism
References	Cloning and expression of cDNA encoding human lysosomal acid lipase/cholesteryl ester hydrolase. Similarities to gastric and lingual lipases.Anderson R.A., Sando G.N.J. Biol. Chem. 266:22479-22484(1991) Purification, characterization and molecular cloning of human hepatic lysosomal acid lipase.Ameis D., Merkel M., Eckerskorn C., Greten H.Eur. J. Biochem. 219:905-914(1994) Tissue and cellular specific expression of murine lysosomal acid lipase mRNA and protein.Du H., Witte D.P., Grabowski G.A.J. Lipid Res. 37:937-949(1996) Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.Nat. Genet. 36:40-45(2004) Suzuki Y., Sugano S., Totoki Y., Toyoda A., Takeda T., Sakaki Y., Tanaka A., Yokoyama S. The DNA sequence and comparative analysis of human chromosome 10.Deloukas P., Earthrowl M.E., Grafham D.V., Rubenfield M., French L., Steward C.A., Sims S.K., Jones M.C., Searle S., Scott C., Howe K., Hunt S.E., Andrews T.D., Gilbert J.G.R., Swarbreck D., Ashurst J.L., Taylor A., Battles J., Bird C.P., Ainscough R., Almeida J.P., Ashwell R.I.S., Ambrose K.D., Babbage A.K., Bagguley C.L., Bailey J., Banerjee R., Bates K., Beasley H., Bray-Allen S., Brown A.J., Brown J.Y., Burford D.C., Burrill W., Burton J., Cahill P., Camire D., Carter N.P., Chapman J.C., Clark S.Y., Clarke G., Clee C.M., Clegg S., Corby N., Coulson A., Dhami P., Dutta I., Dunn M., Faulkner L., Frankish A., Frankland J.A., Garner P., Garnett J., Gribble S., Griffiths C., Grocock R., Gustafson E., Hammond S., Harley J.L., Hart E., Heath P.D., Ho T.P., Hopkins B., Horne J., Howden P.J., Huckle E., Hynds C., Johnson C., Johnson D., Kana A., Kay M., Kimberley A.M., Kershaw J.K., Kokkinaki M., Laird G.K., Lawlor S., Lee H.M., Leongamornlert D.A., Laird G., Lloyd C., Lloyd D.M., Loveland J., Lovell J., McLaren S., McLay K.E., McMurray A., Mashreghi-Mohammadi M., Matthews L., Milne S., Nickerson T., Nguyen M., Overton-Larty E., Palmer S.A., Pearce A.V., Peck A.I., Pelan S., Phillimore B., Porter K., Rice C.M., Rogosin A., Ross M.T., Sarafidou T., Sehra H.K., Shownkeen R., Skuce C.D., Smith M., Standring L., Sycamore N., Tester J., Thorpe A., Torcasso W., Tracey A., Tromans A., Tsolas J., Wall M., Walsh J., Wang H., Weinstock K., West A.P., Willey D.L., Whitehead S.L., Wilming L., Wray P.W., Young L., Chen Y., Lovering R.C., Moschonas N.K., Siebert R., Fechtel K., Bentley D., Durbin R.M., Hubbard T., Doucette-Stamm L., Beck S., Smith D.R., Rogers J.Nature 429:375-381(2004)

NCBI AND UNIPROT INFORMATION

NCBI GI #	51317399
NCBI GeneID	3988
NCBI Accession #	NP_000226.2
NCBI GenBank Nucleotide #	NM_000235.3
UniProt Accession #	P38571; Q16529; Q53H21; Q5T074; Q5T771; Q96EJ0; B2RBH5; D3DR29
Molecular Weight	45 kDa
NCBI Official Full Name	lysosomal acid lipase/cholesteryl ester hydrolase isoform 1
NCBI Official Synonym Full Names	lipase A, lysosomal acid type
NCBI Official Symbol	LIPA
NCBI Official Synonym Symbols	LAL; CESD

NCBI Protein Information	lysosomal acid lipase/cholesteryl ester hydrolase
UniProt Protein Name	Lysosomal acid lipase/cholesteryl ester hydrolase
UniProt Gene Name	LIPA
UniProt Synonym Gene Names	Acid cholesteryl ester hydrolase; LAL
UniProt Entry Name	LICH_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.

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