Apoptotic Protease-Activating Factor 1 (APAF1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Apoptotic protease-activating factor 1 (Apaf1), Recombinant Protein
Full Product Name	Recombinant Rat Apoptotic protease-activating factor 1 (Apaf1) , partial
Product Gene Name	Apaf1 recombinant protein
Product Synonym Gene Name	Apaf1
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	141,152 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9EPV5
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Apaf1 recombinant protein	This gene encodes a cytoplasmic protein that initiates apoptosis. This protein contains several copies of the WD-40 domain, a caspase recruitment domain (CARD), and an ATPase domain (NB-ARC). Upon binding cytochrome c and dATP, this protein forms an oligomeric apoptosome. The apoptosome binds and cleaves caspase 9 preproprotein, releasing its mature, activated form. Activated caspase 9 stimulates the subsequent caspase cascade that commits the cell to apoptosis. Alternative splicing results in several transcript variants encoding different isoforms.
Other Notes	Small volumes of Apaf1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Apaf1 purchase	MBS1308766 is a recombinant protein targeting Apaf1. Also known as Recombinant Rat Apoptotic protease-activating factor 1 (Apaf1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Apaf1. It may not necessarily be applicable to this product.

NCBI GI #	13027436
NCBI GeneID	78963
NCBI Accession #	NP_076469.1
UniProt Primary Accession #	Q9EPV5
UniProt Related Accession #	Q9EPV5

GenBank Nucleotide #	NM_023979.1
NCBI Official Full Name	apoptotic protease-activating factor 1
NCBI Official Synonym Full Names	apoptotic peptidase activating factor 1
NCBI Official Symbol	Apaf1
UniProt Protein Name	Apoptotic protease-activating factor 1
Protein Family	Apoptotic protease-activating factor
UniProt Gene Name	Apaf1
UniProt Synonym Gene Names	APAF-1
NCBI Protein Information	apoptotic protease-activating factor 1
NCBI Summary for Apaf1	protein involved in the initiation of apoptosis [RGD, Feb 2006]
UniProt Comments for Apaf1	Regulates progammed cell death; necessary for normal brain development. Participates with pro-caspase-9 (Apaf-3) in the cytochrome c-dependent activation of caspase-3, leading to apoptosis. This activation requires ATP ().
Research Articles on Apaf1	**1.** miR-183 was induced in protective postconditioning and reduced reperfusion injury of the livers via the targeting of apoptotic signaling. miR-183 mediated the tolerance induced by iPoC in livers via Apaf-1 repressing.
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