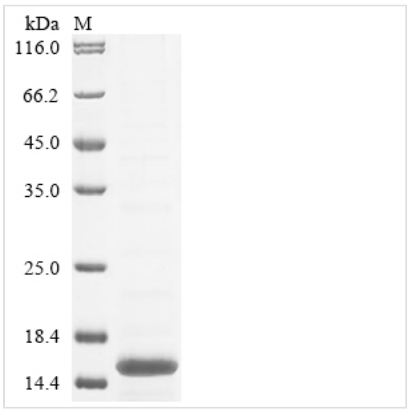
Recombinant Mouse Phospholipase A-2-activating protein (Plaa), partial

Product Code	CSB-EP018107MO1
Abbreviation	Recombinant Mouse Plaa protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P27612
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Recombinant Proteins
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	TGAGRYMPGSAGMDTTMTGVDPFTGNSAYRSAASKTVNIYFPKKEALTFDQA NPTQILGKLKELNGTAPEEKKLTEDDLVLLEKILSLIC
Research Area	Immunology
Source	E.coli
Target Names	Plaa
Expression Region	495-584aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	14.7 kDa
Protein Length	Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

This Mouse Plaa recombinant protein was produced in E.coli, where the gene

sequence encoding Mouse Plaa (495-584aa) was expressed with the N-terminal 10xHis tag and C-terminal Myc tag. The purity of this Plaa protein was greater than 85% by SDS-PAGE.
Plaa is an enzyme activation protein, and its primary function is to activate Phospholipase A-2 (PLA2) inside cells, promoting the hydrolysis of membrane phospholipids, resulting in the production of free fatty acids and phospholipids. This reaction plays a crucial role in the metabolism of cell membranes, signal transduction, and inflammatory responses. Plaa is typically expressed in various tissues and cell types, including the brain, heart, liver, lungs, and kidneys. Its main role is to control the metabolism of membrane phospholipids by activating PLA2, maintaining the integrity of cell membranes, and participating in cell signal transduction.
As an activator protein for PLA2, Plaa may play a role in inflammatory responses and disease processes, including lipid-mediated inflammation and cell membrane rupture. The Phospholipase A-2 (PLA2) family of proteins is of significant importance in medical research due to their associations with various diseases, such as inflammatory diseases, neurological disorders, and cancer. Plaa, as an activator of PLA2, may have potential implications in the research and treatment of related diseases.

Shelf Life

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