



# Recombinant Human Peroxisome proliferatoractivated receptor alpha (PPARA)

<b>Product Code</b>	CSB-BP018421HU
Abbreviation	Recombinant Human PPARA protein
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.	Q07869
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MVDTESPLCPLSPLEAGDLESPLSEEFLQEMGNIQEISQSIGEDSSGSFGFTEY QYLGSCPGSDGSVITDTLSPASSPSSVTYPVVPGSVDESPSGALNIECRICGD KASGYHYGVHACEGCKGFFRRTIRLKLVYDKCDRSCKIQKKNRNKCQYCRFH KCLSVGMSHNAIRFGRMPRSEKAKLKAEILTCEHDIEDSETADLKSLAKRIYEA YLKNFNMNKVKARVILSGKASNNPPFVIHDMETLCMAEKTLVAKLVANGIQNKE AEVRIFHCCQCTSVETVTELTEFAKAIPGFANLDLNDQVTLLKYGVYEAIFAMLS SVMNKDGMLVAYGNGFITREFLKSLRKPFCDIMEPKFDFAMKFNALELDDSDIS LFVAAIICCGDRPGLLNVGHIEKMQEGIVHVLRLHLQSNHPDDIFLFPKLLQKMA DLRQLVTEHAQLVQIIKKTESDAALHPLLQEIYRDMY
Research Area	Cancer
Source	Baculovirus
Target Names	PPARA
Expression Region	1-468aa
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	56.2 kDa
Protein Length	Full Length
Image	

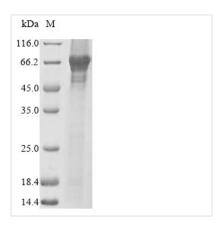
Image

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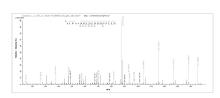




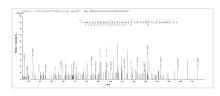




(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of Baculovirus host and target protein, the LC-MS/MS Analysis result of CSB-BP018421HU could indicate that this peptide derived from Baculovirus-expressed Homo sapiens (Human) PPARA.



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### Description

The recombinant Human PPARA was expressed with the amino acid range of 1-468. The expected molecular weight for the PPARA protein is calculated to be 56.2 kDa. This protein is generated in a baculovirus-based system. The Nterminal 10xHis tag and C-terminal Myc tag was fused into the coding gene segment of PPARA, making it easier to detect and purify the PPARA recombinant protein in the later stages of expression and purification.

PPARA (Peroxisome proliferator-activated receptor alpha) is a nuclear receptor playing a crucial role in energy and lipid metabolism. Research primarily focuses on two major areas. Firstly, the role of PPARA in lipid metabolism regulation is widely studied. Researchers delve into the regulatory mechanisms of PPARA in fatty acid oxidation, activation of brown adipose tissue, cholesterol metabolism, providing new insights into the treatment of metabolic diseases like diabetes and hyperlipidemia. Secondly, the physiological functions of PPARA in tissues such as the liver and heart have attracted considerable attention. Researchers are attentive to PPARA's regulatory role in liver lipid metabolism, cardiac protection, and its involvement in metabolism-related inflammatory responses.

#### Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## **Shelf Life**

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