

Human PPARA protein

Cat#: orb595008 (SDS)

Product Name Human PPARA protein

Catalog Number orb595008

Expression host Baculovirus

Product Info N-terminal 10xHis-tagged and C-terminal Myc-tag

Storage Buffer 0.2 µm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, pH 8.0, 50% glycerol

Storage Store at -20°C, for extended storage, conserve at -20°C or -80°C.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Relevance Ligand-activated transcription factor. Key regulator of lipid metabolism. Activated by the endogenous ligand 1-palmitoyl-2-oleoyl-sn-glycerol-3-phosphocholine (16:0/18:1-GPC). Activated by oleylethanolamide, a naturally occurring lipid that regulates satiety. Receptor for peroxisome proliferators such as hypolipidemic drugs and fatty acids. Regulates the peroxisomal beta-oxidation pathway of fatty acids. Functions as transcription activator for the ACOX1 and P450 genes. Transactivation activity requires heterodimerization with RXRA and is antagonized by NR2C2. May be required for the propagation of clock information to metabolic pathways regulated by PER2.

AA sequence

MVDTESPLCPLSPLAAGDLESPLSEEFLLQEMGNIQEISQSIGEDSSGSFGFTEYQYLGSCPGSDGSVITDTLSPASSPSSVTYPVVP
GSVDESPGALNIECRICGDKASGYHYGVHACEGCKGFFRRTIRLKLVDKCDRSCIKKKNRNKCQYCRFKCLSVGMSHNAI
RFRMRPSEKAKLKAELTCEHDIEDSETADLKS LAKRIYEAYLKNFNMNKVKARVILSGKASNNPPFVIHDMETLCMAEKTIVA
KLVANGIQNKEAEVRIFHCCQCTSVETVTELTEFAKAIPGFANLDLNDQVTLKYGVYEAIFAMLSSVMNKDGMMLVAYGNGFIT
REFLKSRLRPFCDIMEPKFDFAMKFNALELDDSDISLFVAIIICGDRPGLLNVGHIKMQEGIVHVLRLHLQSNHPDDIFLFPKL
LQKMADLRQLVTEHAQLVQIIKKTESDAALHPLLQEIYRDMY

References

"cDNA cloning, chromosomal mapping, and functional characterization of the human peroxisome proliferator activated receptor."

Sher T., Yi H.F., McBride O.W., Gonzales F.J.
Biochemistry 32:5598-5604(1993)