

Recombinant Human Peroxisome proliferator-activated receptor gamma(PPARG)

Catalog No: #AP70655

Package Size: #AP70655-1 20ug #AP70655-2 100ug #AP70655-3 1mg

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Description

Product Name	Recombinant Human Peroxisome proliferator-activated receptor gamma(PPARG)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-477aaSequence Info:Full Length of Isoform 1
Other Names	Nuclear receptor subfamily 1 group C member 3
Accession No.	P37231
Calculated MW	70.3 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MTMVDTEMPFWPTNFGISSVDLSVMEDHSHSFDIKPFTTVDFSSISTPHYEDIPFTRTDPVVADYKYDLKLQEY QSAIKVEPASPPYYSEKTQLYNKPHEEPSNSLMAIECRVCGDKASGFHYGVHACEGCKGFFRRTIRLKLIIYDR CDLNCRIHKKSRNKCQYCRFQKCLAVGMSHNAIRFGRMPQAEKEKLLAEISSDIDQLNPESADLRALAKHLYD SYIKSFPLTKAKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKFKHITPLQEQSKEVAIRIFQGCQFRSVEAVQEI TEYAKSIPGFVNLDLNDQVTLKYGVEHIIYTMLASLMNKDGVLISEGQGFMTRFLKSLRKPFGDFMEPKFEF AVKFNALELDDSDLAIFIAVILSGDRPGLLNVPKPIEDIQDNLLQALELQLKLNHPESQLFAKLLQKMTDLRQIVT EHVQLLQVIKKTETDMSLHPLLQEIYKDLY
Formulation	Tris-based buffer50% glycerol
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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Nuclear receptor that binds peroxisome proliferators such as hypolipidic drugs and fatty acids. Once activated by a ligand, the nuclear receptor binds to DNA specific PPAR response elements (PPRE) and modulates the transcription of its target genes, such as acyl-CoA oxidase. It therefore controls the peroxisomal beta-oxidation pathway of fatty acids. Key regulator of adipocyte differentiation and glucose homeostasis. ARF6 acts as a key regulator of the tissue-specific adipocyte P2 (aP2) enhancer. Acts as a critical regulator of gut homeostasis by suppressing NF-kappa-B-mediated proinflammatory responses. Plays a role in the regulation of cardiovascular circadian rhythms by regulating the transcription of ARNTL, BMAL1 in the blood vessels .

References

"Isolation and characterization of a transcriptional cofactor and its novel isoform that bind the DNA-binding domain of peroxisome proliferator-activated receptor gamma."Tomaru T., Satoh T., Yoshino S., Ishizuka T., Hashimoto K., Monden T., Yamada M., Mori M.
Endocrinology 147:377-388(2006)Research Topic:Transcription

Note: This product is for in vitro research use only and is not intended for use in humans or animals.