

PPAR gamma Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Nr1c3;PPAR-gamma;Peroxisome proliferator-activated receptor gamma;Nuclear receptor subfamily 1 group C member 3;Pparg
Protein Construction:	1-505 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	P37238
Molecular Weight:	63.3 kDa (predicted)
AA Sequence:	MGETLGDSPVDPEHGAFADALPMSTSQEITMVDTEMPFWPTNFGISSVDLSVMEDHSHSFDIKPFTTVDFSSI SAPHYEDIPFTRADPMVADYKYDLKLQEYQSAIKVEPASPPYSEKTQLYNRPHEEPSNSLMAIECRVCGDKA SGFHYGVHACEGCKGFFRRTIRLKLIIYDRCDLNCRIHKKSRNKCYCRFQKCLAVGMSHNAIRFGRMPQAEKE KLLAEISSDIDQLNPESADLRALAKHLYDSYIKSFPLTKAKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKFKHI TPLQEQSKEVAIRIFQGCQFRSVEAVQEITEYAKNIPGFINDLNDQVTLKYGVEIITYTMLASLMNKDGVLISE GQGFMTREFLKSLRKPFMGDFMEPKFEFAVKFNALELDDSDLAIFIAVIILSGDRPGLLNKPIEDIQDNLLQALEL QLKLNHPESQLFAKVLQKMTDLRQIVTEHVQLLHVIKKTETDMSLHPLLQEIKDLY

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris/PBS-based buffer

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Nuclear receptor that binds peroxisome proliferators such as hypolipidemic 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.

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