

Peroxisome Proliferator Activated Receptor Gamma (PPAR γ) Active Protein | PPAR γ active protein

Active Peroxisome Proliferator Activated Receptor Gamma (PPAR γ)

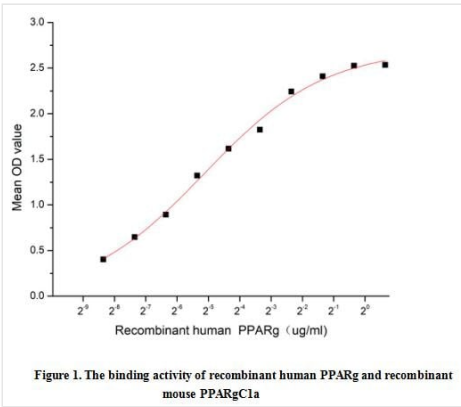
CATALOG # AAA161802	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Peroxisome Proliferator Activated Receptor Gamma (PPAR γ); Active Peroxisome Proliferator Activated Receptor Gamma (PPAR γ); Peroxisome Proliferator Activated Receptor Gamma; PPAR-G; PPARG1; PPARG2; NR1C3; Glitazone Receptor; Nuclear Receptor Subfamily 1 Group C Member 34; PPAR γ active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Gly349–Glu 488
Applicable Applications for PPAR γ active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	5.8
Research Area	Metabolic pathway, Endocrinology, Cardiovascular biology, Developmental science, Bone metabolism
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

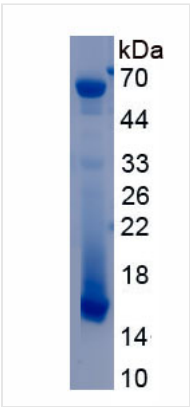


Bioactivity

Peroxisome Proliferator Activated Receptor Gamma (PPARγ) belongs to a large group of nuclear receptors controlling reproduction, metabolism, development and immune response. It is mainly expressed in adipose tissue, hematopoietic cells and the large intestine and it plays an important role in adipocyte differentiation, lipid and glucose metabolism, and modulation of immune and inflammatory reactions. Besides, Peroxisome Proliferator Activated Receptor Gamma Coactivator 1 Alpha (PPARγC1α) has been identified as an interactor of PPARγ, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human PPARγ and recombinant mouse PPARγC1α. Briefly, PPARγ was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to PPARγC1α-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-PPARγ pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human PPARγ and recombinant mouse PPARγC1α was shown in Figure 1, the EC50 for this effect is 0.03 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for PPARγ active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	116284368
NCBI GeneID	5468
NCBI Accession #	NP_005028.4
NCBI GenBank Nucleotide #	NM_005037.5
UniProt Accession #	P37231; O00684; O00710; O14515; Q0QJH8; Q15178; Q15179; Q15180; Q15832; Q86U60; A8K3G6; B5BUA1
Molecular Weight	57,620 Da
NCBI Official Full Name	peroxisome proliferator-activated receptor gamma isoform 1
NCBI Official Synonym Full Names	peroxisome proliferator-activated receptor gamma
NCBI Official Symbol	PPARG
NCBI Official Synonym Symbols	GLM1; CIMT1; NR1C3; PPARG1; PPARG2; PPARGgamma
NCBI Protein Information	peroxisome proliferator-activated receptor gamma; PPAR gamma; PPAR-gamma; nuclear receptor subfamily 1 group C member 3; peroxisome proliferator-activated receptor gamma 1; peroxisome proliferator-activated nuclear receptor gamma variant 1
UniProt Protein Name	Peroxisome proliferator-activated receptor gamma

UniProt Gene Name	PPARG
UniProt Synonym Gene Names	NR1C3; PPAR-gamma
UniProt Entry Name	PPARG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/peroxisome-proliferator-activated-receptor-gamma-pparg/161802>