

Certificate of Analysis

LanthaScreen® TR-FRET PPAR gamma Competitive Binding Assay Kit, 1 Kit

ThermoFisher
SCIENTIFIC

Part Number: PV4894
Lot Number: 3145229
Immediate Storage: -80°C
Shipping Conditions: dry ice

5781 Van Allen Way
Carlsbad, CA 92008
Phone: 760.603.7200
www.thermofisher.com

Components:

Description	Composition	Quantity	Part Number	Lot Number
PPAR Gamma-LBD (GST)	Recombinant Human Peroxisome Proliferator Activated Receptor Gamma Ligand Binding Domain (amino acids 201-475; NP_005028), GST-tagged, in 50 mM Tris-HCl (pH 8.0), 150 mM KCl, 0.5 mM EDTA, 0.5% Big CHAP, 2 mM DTT and 20% Glycerol.	10 µg	PV4545*	2971412A
Fluormone™ Pan-PPAR Green	2 µM in 95% ethanol/water.	200 µL	PV4896	2217450J
LanthaScreen® Tb-anti-GST (Goat) Antibody	10 mM HEPES 137 mM NaCl, 2.7 mM KCl (HEPES buffered saline).	25 µg	PV3550*	2845081C
TR-FRET PPAR Assay Buffer	Proprietary Buffer (pH 7.5).	2 × 25 mL	PV4895	2901458B
DTT Solution	1M DTT in water.	1 mL	P2325	2938820A

*See individual COA

Storage and Handling: The performance of this product is guaranteed for 6 months from the date of purchase if stored and handled properly.

Description	Storage and Handling
PPAR Gamma-LBD (GST)	If properly stored in its original container at -80°C, this product is guaranteed for 6 months from date of purchase. Mix gently, do not vortex.
Fluormone™ Pan-PPAR Green	-80°C. Vortex prior to use. Note: To completely remove Fluormone™ from the glass insert tube, a 10 µL pipette tip with a very narrow long tip, such as Rainin GPSL10S, is required.
LanthaScreen® Tb-anti-GST (Goat) Antibody	If properly stored at -20°C, this product is guaranteed for 6 months from date of purchase.
TR-FRET PPAR Assay Buffer	Store at 4°C. Thaw upon receipt.
DTT Solution	-20°C

QUALITY ASSURANCE

Functional Testing:

Kit components are functionally tested for performance in the assay using a titration of a known agonist or antagonist.

Limited Use Label License No. 169: Peroxisome Proliferator-Activated Receptor-gamma Before using this product, carefully read the Patent and License Information below. By using this product, you indicate your acceptance of the conditions described below. Considerable time and money has been spent developing this product which incorporates, among other things, the PPAR-gamma protein, which is sold under certain patent rights including US Patent No. 6,200,802. Invitrogen Corporation recognizes the importance of providing a product using this technology for on going research in the area of drug discovery and molecular and cellular biology, and we therefore want to make the product available as widely as possible to the scientific community. However, our rights to the product as covered by the aforementioned patent rights are limited to a license for research use only from the Inventors to the end user provided the product has been purchased directly from Invitrogen Corporation. The end user agrees that it will not sell, transfer, disclose or otherwise provide access to this product to any person or entity, other than its' employees. The end user acknowledges that it does not have the right to authorize any third party to use or sell any products covered under the aforementioned product or derivatives thereof. The end user agrees that if any useful chemicals are identified using this product in its research, any commercial use thereof requires a license for such commercial use from the representative of the inventors at 191 N. Wacker Drive Suite 1800, Chicago, Illinois 60603, (312) 521-2778. If you are in doubt as to whether your use of the molecules or chemicals derived from use of this product would require a commercial license, please discuss this matter with Jack Shore, Esq. at the provided address or phone number.

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Certificate of Analysis

PPAR Gamma-LBD (GST), 10 µg

Recombinant Human Peroxisome Proliferator Activated Receptor Gamma Ligand Binding Domain, GST-tagged

ThermoFisher
SCIENTIFIC

Part Number: PV4545

Lot Number: 2971412A

Immediate Storage: -80°C

Shipping Conditions: dry ice

5781 Van Allen Way

Carlsbad, CA 92008

Phone: 760.603.7200

www.thermoFisher.com

Description:

Recombinant Human Peroxisome Proliferator Activated Receptor Gamma Ligand Binding Domain (amino acids 201-475; NP_005028), GST-tagged, expressed in insect cells.

Concentration:

0.52 mg/mL total protein as measured using the Bradford protein assay with BSA as a standard.

Calculated **8,810 nM**.

Assay Concentration(s):

120.3 nM PPAR Gamma-LBD (GST) is the final concentration recommended for the PolarScreen™ PPAR Gamma Competitor Assay, Green (PV6136).

0.5 nM PPAR Gamma-LBD (GST) is the final concentration recommended for the LanthaScreen™ TR-FRET PPAR Gamma Competitive Binding Assay (PV4894).

5 nM PPAR Gamma-LBD (GST) is the final concentration recommended for the LanthaScreen™ TR-FRET PPAR Gamma Coactivator Assay (PV4548).

Aliases:

NR1C3

Storage and Handling:

If properly stored in its original container at -80°C, this product is guaranteed for 6 months from date of purchase. **Mix gently, do not vortex.**

Do **NOT** make single use aliquots.

Stable through 5 freeze-thaw cycles.

Storage Buffer:

50 mM Tris-HCl (pH 8.0), 150 mM KCl, 0.5 mM EDTA, 0.5% Big CHAP, 2 mM DTT and 20% Glycerol.

QUALITY ASSURANCE

Functional Testing:

The performance of each lot of PPAR Gamma-LBD (GST) is confirmed in the following assay(s):

LanthaScreen™ TR-FRET PPAR Gamma Competitive Binding Assay (PV4894). The ligand GW1929 was shown to competitively displace Fluormone™ Pan-PPAR Green (PV4896) from PPAR Gamma-LBD (GST).

LanthaScreen™ TR-FRET PPAR Gamma Coactivator Assay (PV4548). The ligand GW1929 was shown to recruit Fluorescein-TRAP220/DRIP-2 peptide (PV4549) NTKNHPMLMNLKDNPAQD to bind with PPAR Gamma-LBD (GST).

PolarScreen™ PPAR Gamma Competitor Assay, Green (PV6136). The ligand rosiglitazone was shown to displace Fluormone PPAR Gamma Green (PV3356) from PPAR Gamma-LBD (GST).

Gel Information for PPAR Gamma-LBD (GST)

Page Description: The SDS-PAGE and/or Native PAGE were run on 4-20% Tris-Glycine Novex™ gels (Catalog #: EC6025BOX).

Lane 1: Invitrogen™ BenchMark™ Protein Ladder (Catalog #: 10747-012).

Lane 2: 0.5 µg PPAR Gamma-LBD (GST)

Lane 3: 1.0 µg PPAR Gamma-LBD (GST)

Lane 4: 2.5 µg PPAR Gamma-LBD (GST)

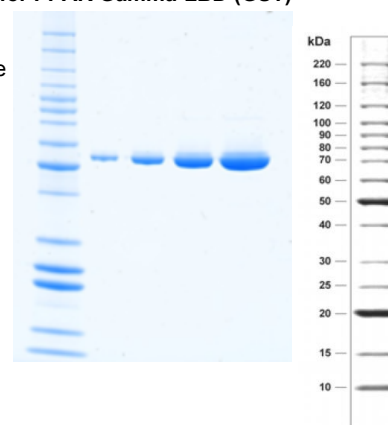
Lane 5: 5.0 µg PPAR Gamma-LBD (GST)

Purity:

95% as determined by a SDS-PAGE gel stained with SimplyBlue™ SafeStain.

Molecular Weight:

59.0 kDa. Calculated from the protein sequence(s).



Protein sequence alignment with reference sequence(s)

1 MAPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAISMLEGAVL GST TAG
1 MAPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAISMLEGAVL IVGN
201 ----- NP_005028

101 DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHSVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPIQIDKYLKSSKYIA
101 DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHSVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPIQIDKYLKSSKYIA
201 -----

201 WPLQGWQATFGGGDHPKSDLVPR
201 WPLQGWQATFGGGDHPKSDLVPRHNQTSLYKKAGTMQNPESADLRALAKHLYDSYIKSFPLTKAKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKFK
201 -----QLNPESADLRALAKHLYDSYIKSFPLTKAKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKFK

224
301 HITPLQEQSKEVAIRIFQGCQFRSVEAVQEIYEYAKSIPGFVNLDLNDQVTLTKYGVHEIITYTMLASLMNKDGVLISEGQGFMTREFLKSRLKPFQDFME
264 HITPLQEQSKEVAIRIFQGCQFRSVEAVQEIYEYAKSIPGFVNLDLNDQVTLTKYGVHEIITYTMLASLMNKDGVLISEGQGFMTREFLKSRLKPFQDFME

224
401 PKFEFAVKFNALELDDSLAIFIAVILSGDRPGLLNKVPIDIEDQNLQALELQKLKLNHPSSQLFAKLLQKMTDLRQIVTEHVQLLQVIKKTETDMSL
364 PKFEFAVKFNALELDDSLAIFIAVILSGDRPGLLNKVPIDIEDQNLQALELQKLKLNHPSSQLFAKLLQKMTDLRQIVTEHVQLLQVIKKTETDMSL

224
501 HPLLQEIYKDLY.
464 HPLLQEIYKDLY

* highlighted residues denote differences from the reference protein sequence(s).



Chevoyn Joseph, Director, Quality

Date: 24/Oct/2024

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For Research Use Only. Not for use in diagnostic procedures.

Certificate of Analysis

LanthaScreen® Tb-anti-GST (Goat) Antibody, 25 µg

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Part Number: PV3550
Lot Number: 2845081C
Immediate Storage: -20°C
Shipping Conditions: dry ice

5781 Van Allen Way
Carlsbad, CA 92008
Phone: 760.603.7200
www.thermofisher.com

Description:

Tb-anti-GST Antibody used for TR-FRET Assays.

Concentration:

0.50 mg/mL as determined spectrophotometrically at A280.
Calculated **3,300 nM** based on absorbance.

Molecular Weight:

150 kDa. The weight of the Tb label is negligible compared to the weight of the antibody.

Chelate to Antibody Ratio:

7:1 Determined spectrophotometrically.

Storage and Handling:

If properly stored in its original container at -20°C, this product is guaranteed for 6 months from date of purchase.

Spinning the antibody is important to reduce noise in the assay readout. Upon thaw of stock or aliquot, mix antibody by inversion or pipetting and centrifuge stock vial or aliquot of antibody at ~10,000 rpm for 5 minutes prior to use. After centrifugation, pipet the quantity of antibody needed for the assay from the top of the liquid, thereby minimizing the potential mixing of material that has been spun to the bottom of the vial. To reduce the number of freeze/thaws aliquots may be prepared. However, to facilitate spinning and pipetting, aliquots below 50 µL are not recommended.

Storage Buffer:

10 mM HEPES 137 mM NaCl, 2.7 mM KCl (HEPES buffered saline).

Instrument Settings:

LanthaScreen® Tb-anti-GST (Goat) Antibody, used in a TR-FRET assay, requires a fluorescence plate reader capable of reading TR-FRET and filters in the **green** range. For instrument specific set-up information go to www.thermofisher.com/instrumentsetup.

Equivalent Usage:

The LanthaScreen® Tb-anti-GST (Rabbit) Antibody and the LanthaScreen® Tb-anti-GST (Goat) Antibody are **INTERCHANGEABLE** in any protocol requiring a LanthaScreen® Tb-anti-GST antibody.

QUALITY ASSURANCE

Functional Testing:

The performance of each lot of LanthaScreen® Tb-anti-GST (Goat) Antibody is confirmed by the LanthaScreen® TR-FRET LXR alpha Coactivator Assay (PV4655) using a titration of the agonist T0901317 (Caymen Chemicals 71810).



Chevoyn Joseph, Director, Quality

Date: 05/Mar/2024

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