

Certificate of Analysis

LanthaScreen® TR-FRET LXR Alpha Coactivator Assay Kit , 1 Kit



Part Number: PV4655
Lot Number: 1859278
Immediate Storage: -80°C
Shipping Conditions: dry ice

5791 Van Allen Way
 Carlsbad, CA 92008
 Phone: 760.603.7200
 Fax: 760.602.6500
 www.lifetechnologies.com

Components:

Description	Composition	Quantity	Part Number	Lot Number
LXR alpha, LBD (GST)	50 mM potassium phosphate (pH 8.0), 150 mM KCl, 0.5 mM EDTA, 0.5% BIG CHAP, 5 mM DTT and 20% Glycerol.	10 µg	PV4656*	1151508E
Fluorescein – TRAP220/DRIP-2 Coactivator Peptide	100 µM Fluorescein-NTKNHPMLMNLKDNPAQD in 50 mM HEPES (pH 7.5), 2554 Da.	100 µL	PV4549	1750870D
LanthaScreen® Tb-anti-GST (Goat) Antibody	10 mM HEPES 137 mM NaCl, 2.7 mM KCl (HEPES buffered saline).	25 µg	PV3550*	1766769A
TR-FRET Coregulator Buffer H	Proprietary Buffer (pH 7.5)	2 × 25 mL	PV4661	1757689A
DTT Solution	1M DTT in water.	1 mL	P2325	1752163G

*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
LXR alpha, 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.
Fluorescein – TRAP220/DRIP-2 Coactivator Peptide	-20°C. Vortex prior to each use.
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 Coregulator Buffer H	20–30°C Mix prior to use.
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.

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 Invitrogen™ is a trademark of Life Technologies Corporation.

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LXR alpha, LBD (GST), 10 µg



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Description:

Recombinant human Liver X Receptor alpha ligand binding domain (amino acids 207-447; NP_005684), GST-tagged, expressed in insect cells.

Concentration:

0.25 mg/mL total protein as measured using the Bradford protein assay with BSAs as a standard.

Calculated **4,470 nM**.

Assay Concentration(s):

2.5 nM LXR alpha, LBD (GST) is the final concentration recommended for the Lanthascreen® TR-FRET LXR alpha Coactivator Assay (PV4655).

Aliases:

NR1H3

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.**

Storage Buffer:

50 mM potassium phosphate (pH 8.0), 150 mM KCl, 0.5 mM EDTA, 0.5% BIG CHAP, 5 mM DTT and 20% Glycerol.

Note: Effective April 1, 2008 the storage buffer for this protein was modified to contain Big CHAP as a stabilizing agent. The TR-FRET assay performance is unaffected.

QUALITY ASSURANCE

Functional Testing:

The performance of each lot of LXR alpha, LBD (GST) is confirmed in the following assay(s):

LanthaScreen® TR-FRET LXR alpha Coactivator Assay (PV4655). The ligand T0901317 was shown to recruit Fluorescein-D22 peptide (PV4386) LPYEGSLLLLKLLRAPVEEV to bind with LXR alpha, LBD (GST).

Gel Information for LXR alpha, LBD (GST)

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

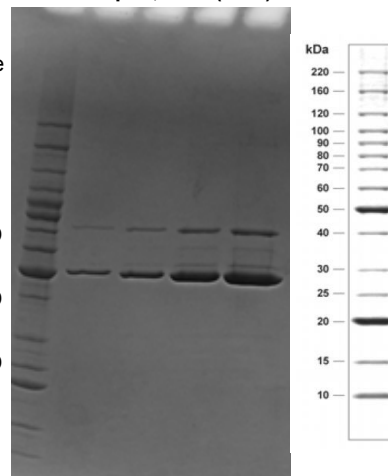
Lane 1: Invitrogen™ BenchMark™ Protein Ladder (Catalog #: 10747-012).

Lane 2: 0.7 µg LXR alpha, LBD (GST)

Lane 3: 1.4 µg LXR alpha, LBD (GST)

Lane 4: 3.5 µg LXR alpha, LBD (GST)

Lane 5: 7 µg LXR alpha, LBD (GST)



Purity:

80% as determined by a Coomassie® blue-stained SDS-PAGE gel.

Molecular Weight:

55.9 kDa.

Protein sequence alignment with reference sequence(s)

GenBank Accession Number: NP_005684

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1  MAPILGYWKIKGLVQPTRLLLEYLEEKYEELHYERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVL  GST
1  MAPILGYWKIKGLVQPTRLLLEYLEEKYEELHYERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVL  LXR alpha
207 ----- NP_005684

101 DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPIQIDKYLKSSKYIA
101 DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPIQIDKYLKSSKYIA
207 -----

201 WPLQGWQATFGGGDHPKSDLVPR
201 WPLQGWQATFGGGDHPKSDLVPRHNQTSLYKKAGSAAAPFTSPEQLGMIIEKLVAAQQCNRRSFSDRLRVTPWPMAPDPSREARQQRFAHFTELAIVS
207 -----SPEQLGMIIEKLVAAQQCNRRSFSDRLRVTPWPMAPDPSREARQQRFAHFTELAIVS

224
301 VQEI VDFAKLPGFLQLSREDQIALLKTS AIEVMLLET SRRYNPGSESITFLKDFSYNREDFAKAGLQVEFINPIFEFSRAMNELQLNDAEFALLIAISI
265 VQEI VDFAKLPGFLQLSREDQIALLKTS AIEVMLLET SRRYNPGSESITFLKDFSYNREDFAKAGLQVEFINPIFEFSRAMNELQLNDAEFALLIAISI

224
401 FSADRPNVQDQLQVERLQHTYVEALHAYVSIHHPHDRLMFPRLMKLVSLRRTLSSVHSEQVFALRLQDKKLPPLSEIWDVHE .
365 FSADRPNVQDQLQVERLQHTYVEALHAYVSIHHPHDRLMFPRLMKLVSLRRTLSSVHSEQVFALRLQDKKLPPLSEIWDVHE

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

Tony Goossens, Engineer II, QA/QC

Date: 18/Feb/2013

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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



Part Number: PV3550
Lot Number: 1766769A
Immediate Storage: -20°C
Shipping Conditions: dry ice

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Description:

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

Concentration:

0.47 mg/mL as determined spectrophotometrically at A280.
Calculated **3,100 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:

5:1 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).

Anita Targosz

Date: 08/Feb/2016

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

For questions, please contact our Technical Support Team

N. Am Ph#: 800-955-6288 or INTL Ph#: 760-603-7200 Select option 5, ext. 40266 Email: drugdiscoverytech@lifetech.com