

Certificate of Analysis

ERR Alpha, LBD (GST), 50 µg

Recombinant Human Estrogen Related Receptor alpha Ligand Binding Domain, GST-tagged

ThermoFisher
SCIENTIFIC

Part Number: PV4665

Lot Number: 2077928B

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 Estrogen Related Receptor alpha ligand binding domain (amino acids 180-423; NP_004442.2), GST-tagged, expressed in insect cells.

Concentration:

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

Calculated **9,190 nM**.

Assay Concentration(s):

5 nM ERR Alpha, LBD (GST) is the final concentration recommended for the LanthaScreen® TR-FRET ERR alpha Coactivator Assay (PV4663).

Aliases:

ERR1, ERRa, ESRL1, NR3B1

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.

Storage Buffer:

50 mM Tris-HCl (pH 8.0), 100 mM NaCl, 0.5 mM EDTA, 0.02% NP-40, 5 mM DTT and 20% Glycerol.

QUALITY ASSURANCE

Functional Testing:

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

LanthaScreen® TR-FRET ERR alpha Coactivator Assay (PV4663). The inverse agonist XCT790 was shown to displace Fluorescein-PGC1a coactivator peptide (PV4421) EAEEPSLLKKLLAPANTQ from ERR Alpha, LBD (GST).

Gel Information for ERR 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: 0.5 µg ERR Alpha, LBD (GST)

Lane 3: 1.0 µg ERR Alpha, LBD (GST)

Lane 4: 2.5 µg ERR Alpha, LBD (GST)

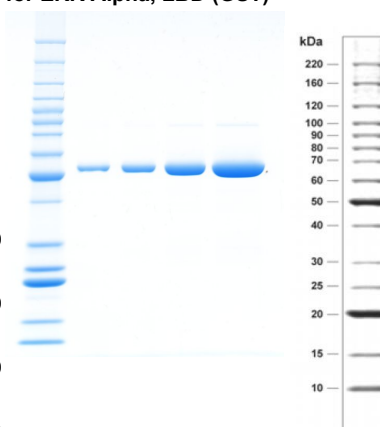
Lane 5: 5.0 µg ERR Alpha, LBD (GST)

Purity:

95% as determined by a Coomassie® blue stained SDS-PAGE gel.

Molecular Weight:

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



Protein sequence alignment with reference sequence(s)

GenBank Accession Number: NP_004442

```

1  MAPILGYWKIKGLVQPTRLLLEYLEEKYEHLVERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAISMLEGAVL  GST
1  MAPILGYWKIKGLVQPTRLLLEYLEEKYEHLVERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAISMLEGAVL  IVGN ERR_alpha
180 ----- NP_004442
101 DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPIQIDKYLKSSKYIA
101 DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPIQIDKYLKSSKYIA
180 -----
201 WPLQGWQATFGGGDHPKSDLVPR
201 WPLQGWQATFGGGDHPKSDLVPRHNQTSLYKKAGSAAAPFTPLAVAGGPRKTAAPVNALVSHLLVVEPEKLYAMPDPAGPDGHLPAVATLCDLFDREIV
180 ----- PLAVAGGPRKTAAPVNALVSHLLVVEPEKLYAMPDPAGPDGHLPAVATLCDLFDREIV
224
301 VTISWAKSIPGFSLSLSDQMSVLQSVWMEVLVLGVAQRSPLQDELAFEAEDLVLDEEGARAAGLGELGAALLQLVRRLQALRLEREYVLLKALALANS
238 VTISWAKSIPGFSLSLSDQMSVLQSVWMEVLVLGVAQRSPLQDELAFEAEDLVLDEEGARAAGLGELGAALLQLVRRLQALRLEREYVLLKALALANS
224
401 DSVHIEDAEAVEQLREALHEALLEYEAGRAGPGGGAERRRAGRLLLTPLLRQTAGKVLAHFYGVKLEGVPMHKLFLMLEAMMD.
338 DSVHIEDAEAVEQLREALHEALLEYEAGRAGPGGGAERRRAGRLLLTPLLRQTAGKVLAHFYGVKLEGVPMHKLFLMLEAMMD
```

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



Anita Targosz, Associate Director

Date: 18/Jul/2019

LanthaScreen® is a registered trademark of Life Technologies Corporation.
Novex® is a registered trademark of Life Technologies Corporation.
Invitrogen™ is a trademark of Life Technologies Corporation.
BenchMark™ is a trademark of Life Technologies Corporation.
Coomassie® is a registered trademark of Imperial Chemical Industries.

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