

Certificate of Analysis

OXR1 (OSR1) , 10 µg

OXR1, Recombinant Human, full-length, GST tagged



Part Number: A30983

Lot Number: 1861465

Immediate Storage: -80°C

Shipping Conditions: dry ice

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Description:

Recombinant human full-length OXR1 (OSR1) was expressed in insect cells using a N-terminal GST tag.

OXR1 serine/threonine kinase or (OSR1) is activated by osmotic stresses and regulates the downstream protein kinase such as PAK1 in order to establish the sensor/signaling modules that initiate the cellular response to environmental stress. OXR1 can be phosphorylated by ATM or ATR during DNA damage process.

Accession Number:

The gene accession number for OXR1 (OSR1) is NP_005100.1.

Concentration:

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

Calculated **1,190 nM**.

Aliases:

OXR1, KIAA1101

Storage and Handling:

For maximum recovery please spin prior to use. Unless noted below, aliquots of the 5 ug, 10ug and 20ug sizes of kinase are not recommended as materials can be used in original packaging until exhausted. For larger sizes, the number of freeze/thaws may be reduced by preparing aliquots, aliquots below 20 µL are not recommended. **Please never store a kinase diluted.** If properly stored at -80°C, this product is guaranteed for 6 months from date of purchase.

Storage Buffer:

50 mM Tris-HCl (pH 7.5), 150 mM NaCl, 10mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF and 25% Glycerol.

QUALITY ASSURANCE

Gel Information for OXR1 (OSR1)

Page Description: Run on an SDS-PAGE gel and stained with Coomassie®.

Lane 1: Molecular Weight markers as labeled.

Lane 2: OXR1 (OSR1)



Purity:

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

Molecular Weight:

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

Protein sequence alignment with reference sequence(s)

GenBank Accession Number: NP_005100.1

1 MSPILGYWKIKGLVQPTRLLLEYLEEKYEHLVERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAISMLEGAVL GST
1 MSPILGYWKIKGLVQPTRLLLEYLEEKYEHLVERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAISMLEGAVL Life 05R1
1 MS-----NP_005100.1

101 DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPIQIDKYLKSSKYIA
101 DIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPIQIDKYLKSSKYIA
3 -----

201 WPLQGWQATFGGGDHPKSD
201 WPLQGWQATFGGGDHPKSDLVPRGSMSEDSALPWSINRDDYELQEVIGSGATAVVQAAYCAPKKEKVAIKRINLEKCQTSMDLLKEIQAMSQCHHPN
3 -----EDSSALPWSINRDDYELQEVIGSGATAVVQAAYCAPKKEKVAIKRINLEKCQTSMDLLKEIQAMSQCHHPN

220
301 IVSYYSFVVKDELWLVMKLLSGGSVLDIIKHIVAKGEHKSGLDESTIATILREVLEGLYHLKNGQIHRDVKAGNILLGEDGSVQIADFGVSAFLATG
75 IVSYYSFVVKDELWLVMKLLSGGSVLDIIKHIVAKGEHKSGLDESTIATILREVLEGLYHLKNGQIHRDVKAGNILLGEDGSVQIADFGVSAFLATG

220
401 GDITRNKVRKTFVGTPCWMAPEVMEQVRGYDFKADIWSFGITAIELATGAAPYHKYPPMKVLMMLTLQNDPPSLETGVQDKEMLKKYGKSFVKMISLCLQK
175 GDITRNKVRKTFVGTPCWMAPEVMEQVRGYDFKADIWSFGITAIELATGAAPYHKYPPMKVLMMLTLQNDPPSLETGVQDKEMLKKYGKSFVKMISLCLQK

220
501 DPEKRPTAAELLRHKFFQKAKNKEFLQEKTLQRAPTISERAKKVRRVPGSSGRLHKTEDGGWEWSDEFEDEESEEGKAAISQLRSPRVKESISNSELFPT
275 DPEKRPTAAELLRHKFFQKAKNKEFLQEKTLQRAPTISERAKKVRRVPGSSGRLHKTEDGGWEWSDEFEDEESEEGKAAISQLRSPRVKESISNSELFPT

220
601 TDPVGTLLQVPEQISAHLPQPAQIATQPTQVSLPPTAEPAKTAQALSSGSGSQETKIPISLVLRLRNSKKELNDIRFEFTPGRDTAEGVSQELISAGLV
375 TDPVGTLLQVPEQISAHLPQPAQIATQPTQVSLPPTAEPAKTAQALSSGSGSQETKIPISLVLRLRNSKKELNDIRFEFTPGRDTAEGVSQELISAGLV

220
701 DGRDLVIVAANLQKIVEEPQSNRSVTFKLASGVEGSDIPDDGKLIGFAQLSIS
475 DGRDLVIVAANLQKIVEEPQSNRSVTFKLASGVEGSDIPDDGKLIGFAQLSIS

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

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