

Recombinant human OXSR1 protein

Catalog Number: ATGP2848

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-527aa

UniProt No.

O95747

NCBI Accession No.

NP_005100

Alternative Names

Serine/threonine-protein kinase OSR1, KIAA1101, OSR1, Oxidative stress-responsive 1 protein, Serine threonine-protein kinase OSR1

PRODUCT SPECIFICATION

Molecular Weight

60.4. kDa (550aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol, 1mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

OXSR1 is a member of the neuronal calcium sensor gene family, which encode calcium-binding proteins expressed predominantly in neurons. This protein regulates G protein-coupled receptor phosphorylation in a calcium-dependent manner and can substitute for calmodulin. It is associated with secretory granules and modulates synaptic transmission and synaptic plasticity. Multiple transcript variants encoding different isoforms have been found for this gene. Recombinant human OXSR1 protein, fused to His-tag at N-terminus, was

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expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMSEDSSA LPWSINRDDY ELQEVIGSGA TAVVQAAYCA PKKEKVAIKR INLEKCQTSM
DELLKEIQAM SQCHHPNIVS YYTSFVVKDE LWLVMKLLSG GSVLDIIKHI VAKGEHKSGV LDESTIATIL REVLEGLEYL
HKNGQIHRDV KAGNILLGED GSVQIADFGV SAFLATGGDI TRNKVRKTFV GTPCWMAPEV MEQVRGYDFK ADIWSFGITA
IELATGAAPY HKYPPMKVLM LTLQNDPPSL ETGVQDKEML KKYGKSFRKM ISLCLQKDPE KRPTAAELLR HKFFQKAKNK
EFLQEKTQR APTISERAKK VRRVPGSSGR LHKTEDGGWE WSDDEFDEES EEGKAAISQL RSPRVKESIS NSELFPTTDP
VGTLQVPEQ ISAHLPQAG QIATQPTQVS LPPTAEPKT AQALSSGSGS QETKIPIISLV LRLRNSKKEL NDIRFEFTPG
RDTAEGVSQE LISAGLVDGR DLVIVAANLQ KIVEEPQSNR SVTFKLASGV EGSDIPDDGK LIGFAQLSIS

General References

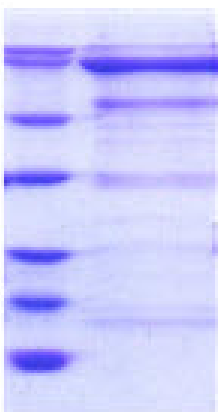
Nakamura T.Y., et al, (2001) Proc. Natl. Acad. Sci. u.S.A. 98:12808-12813.
Bahi N., et al, (2003) Hum. Mol. Genet. 12:1415-1425.

DATA

SDS-PAGE

(kDa)

70
57
40
28
18
13.5
8.5



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)