

Recombinant Human oxidative stress responsive 1, His-tagged

Cat. No. OXSR1-625H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	OXSR1, 1-527aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-527 a.a.
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 expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 1X Phosphate Buffered Saline (pH7.4) containing 30% glycerol, 1mM DTT
Molecular Mass	60.4. kDa (550aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSEDSSA LPWSINRDDY ELQEVIGSGA TAVVQAAYCA PKKEKVAIKR INLEKCQTSM DELLKEIQAM SQCHHPNIVS YYTSFVVKDE LWLVMKLLSG GSVLDIIKHI VAKGEHKSGV LDESTIATIL REVLEGLEYL HKNGQIHRDV KAGNILLGED GSVQIADFGV SAFLATGGDI

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TRNKVRKTFV GTPCWMAPEV MEQVRGYDFK ADIWSFGITA IELATGAAPY
 HKYPPMKVLM LTLQNDPPSL ETGVQDK EML KKYGKSFRKM ISLCLQKDPE
 KRPTAAELLR HKFFQKAKNK EFLQEKT LQR APTISERAKK VRRVPGSSGR
 LHKTEDGGWE WSDDEFDEES EEGKAAISQL RSPRVKESIS NSELFPTTDP
 VGTLLQVPEQ ISAHLPQPAG QIATQPTQVS LPPTAEP AKT AQALSSGSGS
 QETKIPISLV LRLRNSKKEL NDIRFEFTPG RDTAEGVSQE LISAGLVDGR
 DLVIVAANLQ KIVEEPQSNR SVTFKLASGV EGSDIPDDGK LIGFAQLSIS

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [OXSR1 oxidative-stress responsive 1 \[Homo sapiens \]](#)

Official Symbol OXSR1

Synonyms OXSR1; oxidative-stress responsive 1; OSR1; serine/threonine-protein kinase OSR1; KIAA1101; oxidative stress-responsive 1 protein;

Gene ID [9943](#)

mRNA Refseq [NM_005109](#)

Protein Refseq [NP_005100](#)

MIM [604046](#)

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UniProt ID	O95747
Chromosome Location	3p22.2
Function	ATP binding; magnesium ion binding; nucleotide binding; protein serine/threonine kinase activity;

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