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 ETGVQDKEML KKYGKSFRKM ISLCLQKDPE KRPTAAELLR HKFFQKAKNK EFLQEKTLQR APTISERAKK VRRVPGSSGR LHKTEDGGWE WSDDEFDEES EEGKAAISQL RSPRVKESIS NSELFPTTDP VGTLLQVPEQ ISAHLPQPAG QIATQPTQVS LPPTAEPAKT 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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