

Recombinant Rat Esrra protein, His-tagged

Cat. No. Esrra-23R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Esrra(1-422 aa) fused with His tag at N-terminal was expressed in Yeast.
Species	Rat
Source	Yeast
ProteinLength	1-422 a.a.
Description	This protein is a nuclear receptor that is closely related to the estrogen receptor. This protein acts as a site-specific transcription regulator and has been also shown to interact with estrogen and the transcripion factor TFIIB by direct protein-protein contact. The binding and regulatory activities of this protein have been demonstrated in the regulation of a variety of genes including lactoferrin, osteopontin, medium-chain acyl coenzyme A dehydrogenase (MCAD) and thyroid hormone receptor genes. A processed pseudogene of ESRRA is located on chromosome 13q12.1.
Form	Tris-based buffer,50% glycerol
AA Sequence	MSSQVVGIEP LYIKAEPASP DSPKGSSETE TEPPVTLASG PAPARCLPGH KEEEDGEGAG SGEQGSGLV LSSLPKRLCL VCGDVASGYH YGVASCEACK AFFKRTIQGS IEYSCPASNE CEITKRRRKA CQACRFTKCL RVGMLKEGVR LDRVRGGRQK YKRRPEVDPL PFPGPFPAGP LAVAGGPRKT APVNALVSHL LVVEPEKLYA MPDPASPDGH LPAVATLCDL FDREIVVTIS WAKSIPGFSS LSLSDQMSVL QSVWMEVLVL GVAQRSLPLQ DELAFAEDLV LDEEGARAAG

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LGDLGAALLQ LVRRLQALRL EREEYVLLKA LALANSDSVH IEDAEAVEQL
 REALHEALLE YEAGRAGPGG GAERRRAGRL LLTLPLLRQT AGKVLAHFYG
 VKLEGKVPMH KLFLEMLEAM MD

Purity >90% (SDS-PAGE)

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
 Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade.
 The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

GENE INFORMATION

Gene Name [Esrra estrogen related receptor, alpha \[Rattus norvegicus \]](#)

Official Symbol [Esrra](#)

Synonyms [ESRRA](#); estrogen related receptor, alpha; steroid hormone receptor ERR1; ERR-alpha; orphan nuclear receptor; estrogen-related receptor alpha; estrogen-related receptor, alpha; nuclear receptor subfamily 3 group B member 1; Errra; ERRalpha;

Gene ID [293701](#)

mRNA Refseq [NM_001008511](#)

Protein Refseq [NP_001008511](#)

UniProt ID [Q5QJV7](#)

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Chromosome Location	1q43
Pathway	Gene expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Mitochondrial Gene expression, organism-specific biosystem; Nuclear Receptor transcription pathway, organism-specific biosystem; Nuclear Receptors, organism-specific biosystem;
Function	DNA binding; metal ion binding; protein domain specific binding; protein domain specific binding; receptor activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor activity; steroid binding; steroid hormone receptor activity; zinc ion binding;

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