

# Recombinant Human ESRRA Protein (1-423 aa), GST-tagged

**Cat. No.** ESRRA-2117H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ESRRA Protein (1-423 aa) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Full Length.                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 1-423 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Binds to an ERR-alpha response element (ERRE) containing a single consensus half-site, 5'-TNAAGGTCA-3'. Can bind to the medium-chain acyl coenzyme A dehydrogenase (MCAD) response element NRRE-1 and may act as an important regulator of MCAD promoter. Binds to the C1 region of the lactoferrin gene promoter. Requires dimerization and the coactivator, PGC-1A, for full activity. The ERRalpha/PGC1alpha complex is a regulator of energy metabolism. Induces the expression of PERM1 in the skeletal muscle. |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 72.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MSSQVVGIEPLYIKAEPASPDSPKGSSETETETPPVALAPGPAPTRCLPGHKEEEDGE<br>GAGPGEQGGGKLVLSLPKRLCLVCGDVASGYHYGVASCEACKAFFKRTIQGSIEY<br>SCPASNECEITKRRRKACQACRFTKCLRVMLEKEGVRLDRVRGGRQKYKRRPEVD                                                                                                                                                                                                                                                                                                                                     |

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PLPFPGPFPAGPLAVAGGPRKTAAPVNALVSHLLVVEPEKLYAMPDPAGPDGHLPA  
 VATLCDLFDREIVVTISWAKSIPGFSSLSLSDQMSVLQSVWMEVLVLGVAQRSLPLQ  
 DELAFAEDLVLDEEGARAAGLGELGAALLQLVRRQLALRLEREEYVLLKALALANS  
 SVHIEDAEAVEQLREALHEALLEYEAGRAGPGGGAERRRAGRLLLTPLLRQTAGKV  
 LAHFYGVKLEGKVPMHKLFLFLEMLEAMMD

**Purity** > 90% as determined by 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.

**Concentration** A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

## GENE INFORMATION

**Gene Name** [ESRRA estrogen-related receptor alpha \[ Homo sapiens \]](#)

**Official Symbol** [ESRRA](#)

**Synonyms** ESRRA; ESRL1; ERR1; ERRa; ERRalpha; NR3B1; ERR-alpha;

**Gene ID** [2101](#)

**mRNA Refseq** [NM\\_004451](#)

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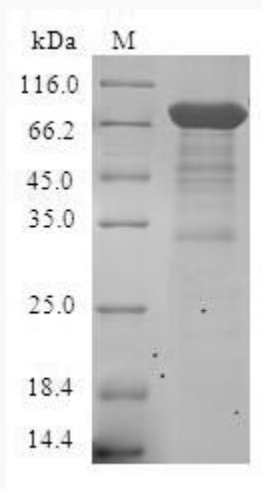
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**Protein Refseq** [NP\\_004442](#)

**MIM** [601998](#)

**UniProt ID** [P11474](#)



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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