



Recombinant Human Steroid hormone receptor ERR1 (ESRRA)

Product Code	CSB-EP007834HU
Relevance	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.
Abbreviation	Recombinant Human ESRRA protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P11474
Alias	Estrogen receptor-like 1 Estrogen-related receptor alpha
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MSSQVVGIEPLYIKAEPASPDSPKGSSETETETPPVALAPGPAPTRCLPGHKEE EDGEGAGPGEQGGGKLVLSLPKRLCLVCGDVASGYHYGVASCEACKAFFK RTIQGSIEYSCPASNECEITKRRRKACQACRFTKCLRVMGLKEGVRLDRVRGG RQKYKRRPEVDPLPFGPFPAGPLAVAGGPRKTAAPVNALVSHLLVVEPEKLY AMPDPAGPDGHLPAVATLCDLFDREIVVTISWAKSIPGFSSLSLSDQMSVLQSV WMEVLVLGVAQRSLPLQDELAFAEDLVLDEEGARAAGLGELGAALLQLVRRL QALRLEREEYVLLKALALANSDSVHIEDAEAVEQLREALHEALLEYEAGRAGPG GGAERRRAGRLLLLTLPLLRQTAGKVLAFYGVKLEGKVPMHKLFLFLEMLEAMM D
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	ESRRA
Protein Names	Recommended name: Steroid hormone receptor ERR1 Alternative name(s): Estrogen receptor-like 1 Estrogen-related receptor alpha Short name= ERR-alpha Nuclear receptor subfamily 3 group B member 1
Expression Region	1-423aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

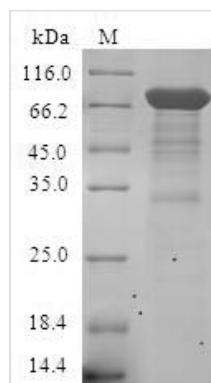


Tag Info N-terminal GST-tagged

Mol. Weight 72.5kDa

Protein Length Full Length

Image



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

Description

The gene encoding the Human ESRRA protein (1-423aa) creates recombinant plasmid, which is then transformed into e.coli cells. e.coli cells that can endure a specific antibiotic are selected and cultured under conditions that encourage the expression of the gene of interest. The protein features a N-terminal GST tag fusion. Following expression, affinity purification is employed to isolate and purify the recombinant Human ESRRA protein from the cell lysate. Denaturing SDS-PAGE is applied to resolve the resulting recombinant Human ESRRA protein, indicating a purity level exceeding 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.