

ERR1 Protein, Human, Recombinant (GST)

General Information

Synonyms:	NR3B1;ESRL1;Nuclear receptor subfamily 3 group B member 1;ERR1;Steroid hormone receptor ERR1;Estrogen receptor-like 1;Estrogen-related receptor alpha (ERR-alpha);ESRA
Protein Construction:	1-423 aa
Species:	Human
Expression Host:	E. coli
Accession:	P11474
Molecular Weight:	72.5 kDa (predicted)
AA Sequence:	MSSQVVGIEPLYIKAEPASPDSPKGSSETETEPVALAPGPAPTRCLPGHKEEDGEGAGPGEQGGGKLVLS LPKRLCLVCGDVASGYHYGVASCEACKAFFKRTIQSIEYSCPASNECEITKRRRKACQACRFTKCLR VGMKE GVRLDRVRGGRQKYKRRPEVDPLPFPFPAGPLAVAGGPRKTAAPVNALVSHLLVVEPEKLYAMPDPAGP DGHLPAVATLCDLFDREIVVTISWAKSIPGFSSLSLSDQMSVLQSVWMEVLVLGVAQRSPLQDELAFAEDLV LDEEGARAAGLGELGAALLQLVRRRLQALRLEREYVLLKALALANSDSVHIEDAEAVEQLREALHEALLEYEAG RAGPGGGAERRRAGRLLLLPLLRQTAGKVLAHFYGVKLEGKVPMHKLFLEMLEAMMD

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Binds to an ERR-alpha response element (ERRE) containing a single consensus half-site, 5'-TNAAGGTCA-3'. Can

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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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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