

Recombinant Mouse Esr1 protein, His & GST-tagged

Cat. No. Esr1-1438M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Esr1 aa. (Ile233~Leu483) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Ile233~Leu483
Description	This gene encodes an estrogen receptor, a member of the nuclear hormone family of intracellular receptors. The encoded protein, activated by the sex hormone estrogen, is a transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Similar genes in human have been implicated in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	59kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method).
Purity	>95%

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Characteristic	The isoelectric point is 9.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200g/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Esr1 estrogen receptor 1 (alpha) [Mus musculus (house mouse)]
Official Symbol	Esr1
Synonyms	ER; ERa; ESR; Estr; Estra; Nr3a1; ERalpha; ER-alpha; C-terminally-truncated estrogen receptor alpha product-4; C-terminally-truncated estrogen receptor alpha product-5; C-terminally-truncated estrogen receptor alpha product-6; C-terminally-truncated estrogen receptor alpha product-7; estradiol receptor; nuclear receptor

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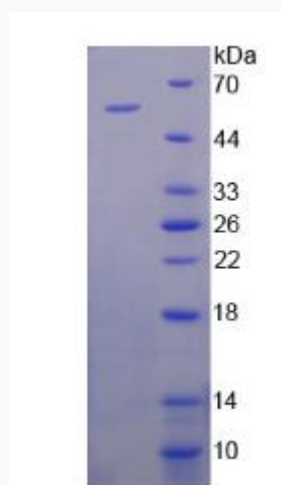
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subfamily 3 group A member 1; estrogen receptor

Gene ID	13982
mRNA Refseq	NM_001302531.1
Protein Refseq	NP_001289460.1
UniProt ID	P19785

SDS-PAGE



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