



# Recombinant Rat Estrogen receptor (Esr1)

<b>Product Code</b>	CSB-EP007830RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P06211
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>MTMTLHTKAS GMALLHQIQG NELEPLNRPQ LKMPMERALG EVYVDNSKPA  VFNYPEGAAY EFNAAAAAAAA AGASAPVYGQ SSITYGPGSE AAAFGANSLG  AFPQLNSVSP SPLMLLHPPP HVSPFLPHPG HQVPYYLENE PSAYAVRDTG  PPAFYRSNSD NRRQNGRERL SSSSEKGNMI MESAKETRYC AVCNDYASGY  HYGVWSCEGC KAFFKRSIQG HNDYMCPATN QCTIDKNRRK SCQACRLRKC  YEVGMMKGGI RKDRRGGRML KHKRQRDDLE GRNEMGTSGD  MRAANLWPSP LVIKHTKKNs PALSLTADQM VSALLDAEPP LIYSEYDPSR  PFSEASMMGL LTNLADRELV HMINWAKRVP GFGDLNLHDQ VHLLCEAWLE  ILMIGLVWRS MEHPGKLLFA PNLLLDNRNQG KCVEGMVEIF DMLLATSSRF  RMMNLQGEEF VCLKSILLN SGVYTFLSST LKSLEEKDHI HRVLDKINDT  LIHLMAGAGL TLQQQHRRLA QLLLILSHIR HMSNKGMEHL YNMKCKNVVP  LYDLLLEMLD AHRLHAPASR MGVPPEEPSQ SQLTTTSSTS AHSLQTYIIP  PEAEGFPNTI</p>
<b>Source</b>	E.coli
<b>Target Names</b>	Esr1
<b>Protein Names</b>	Recommended name: Estrogen receptor Short name= ER Alternative name(s): ER-alpha Estradiol receptor Nuclear receptor subfamily 3 group A member 1
<b>Expression Region</b>	1-600
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This gene encodes an estrogen receptor, a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. The protein localizes to the nucleus where it may form a homodimer or a heterodimer with estrogen receptor 2. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Estrogen receptors are also involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative splicing results in several transcript variants, which differ in their 5 UTRs and use different promoters.
<b>Reconstitution</b>	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.