



Recombinant Rat Estrogen receptor (Esr1)

Product Code	CSB-MP007830RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P06211
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	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 PNLLLDRNQG KCVEGMVEIF DMLLATSSRF RMMNLQGEEF VCLKSILLN SGVYTFLSST LKSLEEKDHI HRVLDKINDT LIHLMAGL TLQQQHRLA QLLLILSHIR HMSNKGMEHL YNMKCKNVVP LYDLLLEMLD AHRLHAPASR MGVPPEEPSQ SQLTTTSSTS AHSLQTYIIP PEAEGFPNTI
Source	Mammalian cell
Target Names	Esr1
Protein Names	Recommended name: Estrogen receptor Short name= ER Alternative name(s): ER-alpha Estradiol receptor Nuclear receptor subfamily 3 group A member 1
Expression Region	1-600
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	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.
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.