



# Recombinant Macaca mulatta (Rhesus macaque) Estrogen receptor (ESR1)

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| <b>Product Code</b>      | CSB-BP007830MOW  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.  |
| <b>Uniprot No.</b>       | P49886   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Macaca mulatta (Rhesus macaque)  |
| <b>Purity</b>            | >85% (SDS-PAGE)  |
| <b>Sequence</b>          | LFAPNLLDR NQGKCVEGMV ESFDMLLATS SRFRMMNLQG EEFVCLKSII<br>LLNSGVYTFLL SSTLKSLEEK DHIHRVLDKI TDTLIHLMMAK AGLTLQQQHR<br>RLAQLLLILS HIRHMSNKGM E   |
| <b>Source</b>            | Baculovirus  |
| <b>Target Names</b>      | ESR1   |
| <b>Protein Names</b>     | Recommended name: Estrogen receptor Short name= ER Alternative name(s):<br>ER-alpha Estradiol receptor Nuclear receptor subfamily 3 group A member 1   |
| <b>Expression Region</b> | 1-121  |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at<br>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<br>composed of several domains important for hormone binding, DNA binding, and<br>activation of transcription. The protein localizes to the nucleus where it may form<br>a homodimer or a heterodimer with estrogen receptor 2. Estrogen and its<br>receptors are essential for sexual development and reproductive function, but<br>also play a role in other tissues such as bone. Estrogen receptors are also<br>involved in pathological processes including breast cancer, endometrial cancer,<br>and osteoporosis. Alternative splicing results in several transcript variants, which<br>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<br>contents to the bottom. Please reconstitute protein in deionized sterile water to a<br>concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final<br>concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final<br>concentration of glycerol is 50%. Customers could use it as reference.  |
| <b>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients,<br>storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life<br>of lyophilized form is 12 months at -20°C/-80°C.   |