



## Product Data Sheet

□ Cat # RP-940

Recombinant (E.Coli) Human Estrogen Receptor Alpha

Size: □ 2 ug

Estrogen receptor is a ligand-activated transcription factor composed of several domains essential for hormone binding, DNA binding, and activation of transcription. Estrogen and its receptors are crucial for sexual development and reproductive function, but also play a role in other tissues such as bone.

The Estrogen Receptor is a significant regulator of growth and differentiation in the mammary gland. Estrogen receptors are also implicated in pathological processes including breast cancer, endometrial cancer, and osteoporosis. The presence of estrogen receptors in breast tumors indicates an increased probability of response to anti-estrogen therapy (e.g. tamoxifen).

The ER gene consists of more than 140kb of genomic DNA divided into 8 exons, being translated into a protein with six functionally discrete domains, labeled A through F. The ER is an important regulator of growth and differentiation in the mammary gland. Presence of ER in breast tumors indicates an increased likelihood of response to anti-estrogen (e.g. tamoxifen) therapy.

**Source:** Recombinant Human ER is a protein encoding 1-300 a.a. expressed in E.coli and purified (90%, 59 Kda). It is supplied at 100µg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% (see lot sp. conc on the vial).

### Application:

- ELISA
- Inhibition Assays
- Western Blotting

### Stability and Storage:

Store vial at -20oC to -80oC. When stored at the recommended temperature, this protein is stable for 12 months. If supplied in powder, then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage. Avoid freeze-thaw cycles.

*This item is for in vitro research only.*

### Related items from ADI

Catalog#	Prod Description
ERA11-C	Human Estrogen Receptor alpha (ER-a) Protein WB +ve control
RP-940	Recombinant (E.Coli) Human Estrogen Receptor Alpha
ERA12-A	Anti-Human Estrogen receptor alpha (ER-alpha) peptide IgG
MA-20206	Mouse Monoclonal Anti-Human estrogen receptor 1 (ESR1)
MA-20272	Mouse Monoclonal Anti-Human estrogen receptor 1 (ESR1)
MA-20284	Mouse Monoclonal Anti-Human estrogen receptor 1 (ESR1)
RP-940-Hu-Estrogen-receptor	151229SV