

## 32-8169: Recombinant Human Estrogen Receptor beta/ER beta/NR3A2 (N-6His)(Discontinued)

**Gene :** ESR2  
**Gene ID :** 2100  
**Uniprot ID :** Q92731

### Description

Source: E.coli.  
MW :38.1kD.

Recombinant Human Estrogen Receptor Beta is produced by our E.coli expression system and the target gene encoding Met1-Ala323 is expressed with a 6His tag at the N-terminus. Estrogen Receptor Beta (ESR2) is a nuclear protein that belongs to the nuclear hormone receptor family of NR3 subfamily. It contains one nuclear receptor DNA-binding domain and is expressed in many tissues at a lower level. ESR2 is a nuclear hormone receptor. It binds estrogens with an affinity similar to that of ESR1 and activates expression of reporter genes containing estrogen response elements (ERE) in an estrogen-dependent manner. DNA-binding by ESR1 and ESR2 is rapidly lost at 37 degrees Celsius in the absence of ligand while in the presence of 17 beta-estradiol and 4-hydroxy-tamoxifen loss in DNA-binding at elevated temperature is more gradual.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 50mM TrisHCl,pH8.0.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** MGSSHHHHHHSSGLVPRGSHMDIKNSPSSLNSPSSYNCSQSILPLEHGSIIYIPSSYVDSHHEYPAAMTFYSPAVM  
NYSIPSNVTNLEGGPGRQTTSPNVLWPTPGHLSPLVVHRQLSHLYAEPQKSPWCEARSLEHTLPVNRETLKRKV  
SGNRCASPVTGPGSKRDAHFCVCSDYASGYHYGVWSCEGCKAFFKRSIQGHNDYICPATNQCTIDKNRRKS  
CQACRLRKCYEVMVKCGSRRERCGYRLVRRQRSADQLHCAGKAKRSGGHAPRVRELLLDALSPEQLVLT  
LEAEPHVLISRPSAPFTEASMMMSLTKLADKELVHMISWAKKIPGMRGNA

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.