Recombinant Protein Technical Manual

Recombinant Human Estrogen Receptor β/ER beta Protein (His Tag)

RPES3323

Product Data:

Product SKU: RPES3323

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q92731-3

Protein Information:

Molecular Mass: 38.1 kDa

AP Molecular Mass: 35 kDa

Tag: N-6His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 50mM TrisHCl, pH8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Estrogen Receptor Beta; ER-Beta; Nuclear Receptor Subfamily 3 Group A Member 2; ESR2; ESTRB; NR3A2

Immunogen Information:

Sequence: Met 1-Ala323

Background:

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.