

Full-Length

ESR2 (Human) Recombinant Protein (P01)

Catalog # H00002100-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ESR2 full-length ORF (AAH24181, 1 a.a. - 323 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDIKNSPSSLNSPSSYNCSQSILPLEHGSMPSSYVDSHHEYAMTFYSPAVMNYSIPSNVTNLEG
GPGRQTTSPNVLWPTPGHLSPLVVHRQLSHLYAEPQKSPRCEARSLEHTLPVNRETLKRKVSGN
RCASPVTGPGSKRDAHFCVCSDYASGYHYGVWSCEGCKAFFKRSIQGHNDYICPATNQCTIDK
NRRKSCQACRLRKCYEVGMVKCGSRRERCYRLVRRQRSADQLHCAGKAKRSGGHAPRVRE
LLLDALSPEQLVLTLLAEPPHVLISRPSAPFTEASMMMSLTKLADKELVHMISWAKKIPGMRGNA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

61.27

Interspecies Antigen Sequence

Mouse (87)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ESR2

Entrez GeneID[2100](#)**GeneBank Accession#**[BC024181](#)**Protein Accession#**[AAH24181](#)**Gene Name**

ESR2

Gene Alias

ER-BETA, ESR-BETA, ESRB, ESTRB, Erb, NR3A2

Gene Description

estrogen receptor 2 (ER beta)

Omim ID[601663](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a member of the family of estrogen receptors and superfamily of nuclear receptor transcription factors. The gene product contains an N-terminal DNA binding domain and C-terminal ligand binding domain and is localized to the nucleus, cytoplasm, and mitochondria. Upon binding to 17beta-estradiol or related ligands, the encoded protein forms homo- or hetero-dimers that interact with specific DNA sequences to activate transcription. Some isoforms dominantly inhibit the activity of other estrogen receptor family members. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been fully characterized. [provided by RefSeq]

Other Designations

estrogen receptor beta|estrogen receptor beta 4

Publication Reference

- [GR and LSD1/KDM1A-Targeted Gene Activation Requires Selective H3K4me2 Demethylation at Enhancers.](#)

Clark EA, Wu F, Chen Y, Kang P, Kaiser UB, Fang R, Shi YG.

Cell Reports 2019 Jun; 27(12):3522.

Application: Func, Recombinant protein

- [A Fragment of Adhesion Molecule L1 Binds to Nuclear Receptors to Regulate Synaptic Plasticity and Motor Coordination.](#)

Kraus K, Kleene R, Henis M, Braren I, Kataria H, Sharaf A, Loers G, Schachner M, Lutz D.

Molecular Neurobiology 2018 Jan; [Epub].

Application: ELISA, Mouse , Mouse cerebellar neurons

Disease

- [Abortion](#)
- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Aortic Aneurysm](#)
- [Arthritis](#)
- [Asperger Syndrome](#)
- [Atherosclerosis](#)
- [Autistic Disorder](#)
- [Azoospermia](#)
- [Biliary Tract Neoplasms](#)
- [Bone Diseases](#)
- [Brain Ischemia](#)
- [Breast cancer](#)

- [Breast Neoplasms](#)
- [Bulimia](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Cellulitis](#)
- [Cerebrovascular Accident](#)
- [Chorioamnionitis](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cognition Disorders](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Stenosis](#)
- [Cryptorchidism](#)
- [Dementia](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)

- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Fetal Membranes](#)
- [Fractures](#)
- [Gallstones](#)
- [Gaucher disease](#)
- [Gender Identity](#)
- [Genetic Predisposition to Disease](#)
- [Germinoma](#)
- [Glaucoma](#)
- [Graft vs Host Disease](#)
- [Graves Disease](#)
- [Headache](#)
- [Hip Fractures](#)
- [Hot Flashes](#)
- [Hyperlipidemias](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Hypospadias](#)
- [Infertility](#)
- [Inflammation](#)
- [Kidney Failure](#)
- [Leiomyoma](#)
- [Liver Cirrhosis](#)
- [Low Tension Glaucoma](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)

- [Lymphatic Metastasis](#)
- [Lymphoma](#)
- [Menstruation Disturbances](#)
- [Metabolic Syndrome X](#)
- [Microsatellite Instability](#)
- [Migraine Disorders](#)
- [Mood Disorders](#)
- [Myocardial Infarction](#)
- [Neoplasm Invasiveness](#)
- [Neoplasms](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Oligospermia](#)
- [Osteoarthritis](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Overweight](#)
- [Parkinson disease](#)
- [Peripheral Vascular Diseases](#)
- [Polycystic Ovary Syndrome](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Premenstrual Syndrome](#)
- [Prenatal Exposure Delayed Effects](#)

- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Rectal Neoplasms](#)
- [Recurrence](#)
- [Schizophrenia](#)
- [Scleroderma](#)
- [Scoliosis](#)
- [Seminoma](#)
- [Social Perception](#)
- [Stomach Neoplasms](#)
- [Testicular Neoplasms](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Neoplasms](#)
- [Varicose Ulcer](#)
- [Venous Thrombosis](#)
- [Vision Disorders](#)
- [Werner syndrome](#)