

Product datasheet for TP313277

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Estrogen Receptor 1 (ESR1) (NM_000125) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human estrogen receptor 1 (ESR1), transcript variant 1, 20 μg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >Peptide sequence encoded by RC213277 or AA Sequence: Blue=ORF Red=Cloning site Green=Tag(s)

MTMTLHTKASGMALLHQIQGNELEPLNRPQLKIPLERPLGEVYLDSSKPAVYNYPEGAAYEFNAAAAAN AQVYGQTGLPYGPGSEAAAFGSNGLGGFPPLNSVSPSPLMLLHPPPQLSPFLQPHGQQVPYYLENEPSG YTVREAGPPAFYRPNSDNRRQGGRERLASTNDKGSMAMESAKETRYCAVCNDYASGYHYGVWSCEGCKA FFKRSIQGHNDYMCPATNQCTIDKNRRKSCQACRLRKCYEVGMMKGGIRKDRRGGRMLKHKRQRDDGE

G

RGEVGSAGDMRAANLWPSPLMIKRSKKNSLALSLTADQMVSALLDAEPPILYSEYDPTRPFSEASMMGL LTNLADRELVHMINWAKRVPGFVDLTLHDQVHLLECAWLEILMIGLVWRSMEHPGKLLFAPNLLLDRNQ GKCVEGMVEIFDMLLATSSRFRMMNLQGEEFVCLKSIILLNSGVYTFLSSTLKSLEEKDHIHRVLDKIT DTLIHLMAKAGLTLQQQHQRLAQLLLILSHIRHMSNKGMEHLYSMKCKNVVPLYDLLLEMLDAHRLHAP

TSRGGASVEETDQSHLATAGSTSSHSLQKYYITGEAEGFPATV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Recombinant protein using RC213277 also available, TP313277

Tag: C-Myc/DDK

Predicted MW: 66 kDa

Concentration: >0.1 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Bioactivity: Binding assay (PMID: 28842010)

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.





Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 000116

 Locus ID:
 2099

 UniProt ID:
 P03372

 RefSeq Size:
 6456

Cytogenetics: 6q25.1-q25.2

RefSeq ORF: 1785

Synonyms: ER; Era; ESR; ESRA; ESTRR; NR3A1

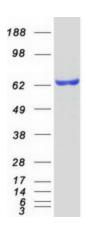
Summary: This gene encodes an estrogen receptor and ligand-activated transcription factor. The

canonical protein contains an N-terminal ligand-independent transactivation domain, a central DNA binding domain, a hinge domain, and a C-terminal ligand-dependent transactivation domain. The protein localizes to the nucleus where it may form either a homodimer or a heterodimer with estrogen receptor 2. The protein encoded by this gene regulates the transcription of many estrogen-inducible genes that play a role in growth, metabolism, sexual development, gestation, and other reproductive functions and is expressed in many non-reproductive tissues. The receptor encoded by this gene plays a key role in breast cancer, endometrial cancer, and osteoporosis. This gene is reported to have dozens of transcript variants due to the use of alternate promoters and alternative splicing, however, the full-length nature of many of these variants remain uncertain. [provided by

RefSeq, Jul 2020]

Protein Families: Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

Product images:



Coomassie blue staining of purified ESR1 protein (Cat# TP313277). The protein was produced from HEK293T cells transfected with ESR1 cDNA clone (Cat# [RC213277]) using MegaTran 2.0 (Cat# [TT210002]).