



# Recombinant Protein Technical Manual

## Recombinant Human EGR1 Protein (His Tag)

RPES2623

### Product Data:

**Product SKU:** RPES2623

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P18146

### Protein Information:

**Molecular Mass:** 19.9 kDa

**AP Molecular Mass:** 18 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°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C 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 20mM PB,150mM NaCl,pH7.4.

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

**Application:**

**Synonyms:** EGR; Early growth response protein 1; Zif268; zinc finger protein 225; NGFI-A ; nerve growth factor-induced protein A;

## Immunogen Information:

**Sequence:** Gln282-Ser433

## Background:

EGR belongs to the EGR family of C2H2-type zinc finger proteins. It is a nuclear protein and functions as a transcriptional regulator. EGR recognizes and binds to the DNA sequence 5'-CGCCCCGC-3'(EGR-site). The products of target genes it activates are required for differentiation and mitogenesis. Studies suggest this is a tumor suppressor gene. EGR has a distinct pattern of expression in the brain, and its induction has been shown to be associated with neuronal activity. Several studies suggest it has a role in neuronal plasticity. EGR has also been found to regulate the expression of synaptobrevin II (a protein important for synaptic exocytosis).