

EGR1 Protein, Human, Recombinant (His)

General Information

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| Synonyms: | zinc finger protein 225;NGFI-A;Zif268;Early growth response protein 1;EGR-1;nerve growth factor-induced protein A |
| Protein Construction: | Gln282-Ser433 |
| Species: | Human |
| Expression Host: | E. coli |
| Accession: | P18146 |
| Molecular Weight: | 19 KDa (reducing condition) |
| AA Sequence: | Gln282-Ser433 |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | Greater than 95% as determined by reducing SDS-PAGE. (QC verified) |
| Endotoxin: | < 0.1 ng/μg (1 EU/μg) as determined by LAL test. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.4. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

EGR-1 belongs to the EGR family of C2H2-type zinc finger proteins. It is a nuclear protein and functions as a transcriptional regulator. EGR-1 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-1 has a distinct pattern of expression in the brain, and its induction has been shown

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to be associated with neuronal activity. Several studies suggest it has a role in neuronal plasticity. EGR-1 has also been found to regulate the expression of synaptobrevin II (a protein important for synaptic exocytosis).

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481