

**32-8038: Recombinant Human Endothelial Differentiation-Related Factor 1/EDF1/MBF1 (C-6His)**

**Gene :** EDF1  
**Gene ID :** 8721  
**Uniprot ID :** O60869

**Description**

Source: E.coli.  
MW :17.4kD.

Recombinant Human EDF1 is produced by our E.coli expression system and the target gene encoding Ala2-Lys148 is expressed with a 6His tag at the C-terminus. Endothelial Differentiation-Related Factor 1 (EDF1) is a 148 amino acid transcriptional coactivator that contains 1 HTH cro/C1-type DNA-binding domain. It has been postulated that the protein functions as a bridging molecule that interconnects regulatory proteins and the basal transcriptional machinery, thereby modulating the transcription of genes involved in endothelial differentiation. When endothelial cells are induced to differentiate in vitro, EDF1 is downregulated, leading to inhibition of cell growth and cell polarization. EDF1 binds calmodulin through its IQ domain and regulates nitric oxide synthase activity through calmodulin sequestration in the cytoplasm. Though ubiquitously expressed, EDF1 is most abundant in adult liver, heart, adipose tissues, intestine and pancreas. In fetal tissues, EDF1 is most abundant in kidney. There are two isoforms of EDF1 that are produced as a result of alternative splicing events.

**Product Info**

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 8.0.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** AESDWDVTVLRKKGPTAAQAKSKQAILAAQRRGEDVETSKKWAAGQNKQHSITKNTAKLDRETEELHHDRV  
TLEVGKVIQQRQSKGLTQKDLATKINEKPQVIADYESGRAIPNNQVLGKIERAIGLKLRGKDIGKPIEKGPRAKL  
EHHHHHH

**Application Note**

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.