

Recombinant human EDF1 protein

Catalog Number: ATGP0655

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-148aa

UniProt No.

O60869

NCBI Accession No.

NP_003783

Alternative Names

Endothelial differentiation-related factor 1, EDF-1, MBF1, Endothelial differentiation-related factor 1

PRODUCT SPECIFICATION

Molecular Weight

17.4 kDa (156aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 0.1M NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Endothelial differentiation-related factor 1, also known as EDF1 may regulate endothelial cell differentiation. 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. Also, 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. Recombinant human EDF1 protein, fused to His-tag at

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C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MAESDWDTVT VLRKKGPTAA QAKSKQAILA AQRREGDVT SKKWAAGQNK QHSITKNTAK LDRETEELHH DRVTLEVGKV
IQGRQSKGL TQKDLATKIN EKQVIADYE SGRAIPNNQV LGKIERAIGL KLRGKDIGKP IEKGPRAKLE HHHHHH

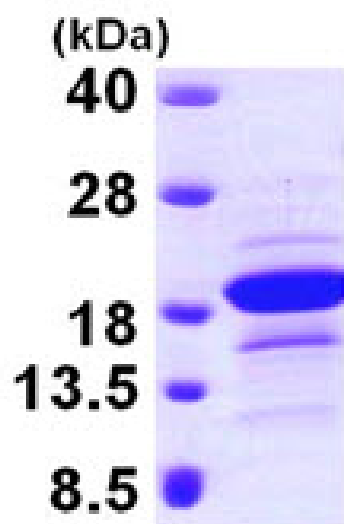
General References

Mariotti M., et al. (2000) J Biol Chem. 275:24047-24051.

Dragoni I., et al. (1998) J Biol Chem. 273: 31119-31124.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)