

Recombinant Human ELF3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ELF3-2434H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ELF3 MS Standard C13 and N15-labeled recombinant protein (NP_004424) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Transcriptional activator that binds and transactivates ETS sequences containing the consensus nucleotide core sequence GGA[AT]. Acts synergistically with POU2F3 to transactivate the SPRR2A promoter and with RUNX1 to transactivate the ANGPT1 promoter. Also transactivates collagenase, CCL20, CLND7, FLG, KRT8, NOS2, PTGS2, SPRR2B, TGFBR2 and TGM3 promoters. Represses KRT4 promoter activity. Involved in mediating vascular inflammation. May play an important role in epithelial cell differentiation and tumorigenesis. May be a critical downstream effector of the ERBB2 signaling pathway. May be associated with mammary gland development and involution. Plays an important role in the regulation of transcription with TATA-less promoters in preimplantation embryos, which is essential in preimplantation development.
Molecular Mass	41.5 kDa
AA Sequence	MAATCEISNIFSNYFSAMYSSDSTLASVPPAATFGADDLVLTLSNPQMSLEGTEKA SWLGEQPQFWSKTQVLDWISYQVEKNKYDASAI DFSRCMDGATLCNCALEELRLV

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FGPLGDQLHAQLRDLTSSSSDELSTWIIELLEKDGMAFQEALDPGPFQDQGSPFAQELL
DDGQQASPYHPGSCGAGAPSPGSSDVSTAGTGASRSSHSSSDSGGSDVDLDPTDG
KLFPDGDGFRDCKKGDPKHGKRKRGRPRKLSKEYWDCLEGKKS KHAPRGTHLWEFI
RDILHPELNEGLMKWENRHEGVFKFLRSEAVAQLWGQKKKNSNMTYEKLSRAMRY
YYKREILERV DGRRLVYKFGKNSSGWKEEEVLQSRNTRTRPLEQKLISEEDLAANDI
LDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ELF3 E74 like ETS transcription factor 3 [Homo sapiens (human)]

Official Symbol **ELF3**

Synonyms ELF3; E74-like factor 3 (ets domain transcription factor, epithelial-specific); ESX; ETS-related transcription factor Elf-3; EPR 1; ERT; ESE 1; epithelial-restricted with serine box; epithelium-restricted Ets protein ESX; epithelium-specific Ets transcription factor 1; E74-like factor 3 (ets domain transcription factor); ets domain transcription factor, serine box (epithelial-specific); E74-like factor 3 (ETS domain transcription factor, serine box, epithelial-specific); EPR-1; ESE-1;

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Gene ID	1999
mRNA Refseq	NM_004433
Protein Refseq	NP_004424
MIM	602191
UniProt ID	P78545
SDS-PAGE	