

# Recombinant Human KLF3, His-tagged

**Cat. No.** KLF3-15893H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human KLF3 protein, fused to His tag at N-terminus, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 1-345aa                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | Krueppel-like factor3, also known as KLF3, is a member of the Sp1-like/KLF family. Kruppel-like factors (KLFs) comprise a family of evolutionarily conserved zinc finger-containing transcription factors with diverse regulatory functions in cell growth, proliferation, differentiation and embryogenesis. KLF3 is Kruppel-like zinc finger containing transcription factors. KLF3 may play a role in hematopoiesis. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 41.2 kDa (368aa)                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMLMFDPV PVKQEAMDPV SVSYPSNYME<br>SMKPNKYGVI YSTPLPEKFF QTPEGLSHGI QMEPVDLTVN KRSSPPSAGN<br>SPSSLKFPSS HRRASPGLSM PSSSPPIKKY SPPSPGVQPF GVPLSMPPVM<br>AAALSRHGIR SPGILPVIQPVVVQVPVPMY TSHLQQPLMV SLSEEMENSS<br>SSMQVPVIES YEKPIQKKI KIEPGIEPQR TDYYPEEMSP PLMNSVSPQ<br>ALLQENHPSV IVQPGKRPLP VESPDTRQRKRIHRCDDYDGC NKVYTKSSHL                                                                   |

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|                         |                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | KAHRRTHTGE KPYKCTWEGC TWKFARSDDEL TRHFRKHTGI KPFQCPDCDR<br>SFSRSDHLAL HRKRHMLV                                                                                                                                                                     |
| <b>Purity</b>           | >90% by SDS - PAGE                                                                                                                                                                                                                                 |
| <b>Applications</b>     | SDS-PAGE                                                                                                                                                                                                                                           |
| <b>Storage</b>          | Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.                                                                                                        |
| <b>Concentration</b>    | 1 mg/ml (determined by Bradford assay)                                                                                                                                                                                                             |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>        | KLF3 Kruppel-like factor 3 (basic) [ Homo sapiens ]                                                                                                                                                                                                |
| <b>Official Symbol</b>  | KLF3                                                                                                                                                                                                                                               |
| <b>Synonyms</b>         | KLF3; Kruppel-like factor 3 (basic); Krueppel-like factor 3; basic Kruppel like factor; BKLF; TEF-2; transcript ch138; basic Kruppel-like factor; basic kruppel like factor; basic krueppel-like factor; CACCC-box-binding protein BKLF; MGC48279; |
| <b>Gene ID</b>          | 51274                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>      | NM_016531                                                                                                                                                                                                                                          |
| <b>Protein Refseq</b>   | NP_057615                                                                                                                                                                                                                                          |
| <b>MIM</b>              | 609392                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>       | P57682                                                                                                                                                                                                                                             |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 4p16.1-p15.2                                                                                                                        |
| <b>Pathway</b>             | Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem; |
| <b>Function</b>            | DNA binding; metal ion binding; sequence-specific DNA binding transcription factor activity; zinc ion binding;                      |

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