

Recombinant Human KLF1 protein, His-B2M-tagged

Cat. No. KLF1-395H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KLF1 protein(NP_006554.1)(1-362aa) fused with two N-terminal tag, His tag and B2M tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-362aa
Description	This gene encodes a hematopoietic-specific transcription factor that induces high-level expression of adult beta-globin and other erythroid genes. The zinc-finger protein binds to the DNA sequence CCACACCCT found in the beta hemoglobin promoter. Heterozygous loss-of-function mutations in this gene result in the dominant In(Lu) blood phenotype.
Form	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Molecular Mass	52.2 kDa
AA Sequence	MATAETALPSISTLTALGPF PDTQDDFLKWWRSEEAQDMGPGPPDPTEPPLHVKSE DQPGEEEDDERGADATWDL DLLLTNFSGPEPGGAPQTCALAPSEASGAQYPPPPPE TLGAYAGGPGLVAGLLGSEDHSGWVRPALRRAPDAFVG PALAPAPAPEPKALALQ

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PVYPGPGAGSSGGYFPRTGLSVPAASGAPYGLLSGY PAMYPAPQYQGHFQLFRGL
 QGPAPGPATSPSFLSCLGPGTVGTGLGGTAEDPGVIAETAPSKRGRRSWARKRQA
 AHTCAHPGCGKSYTKSSHLKAHLRTHTGEKPYACTWEGCGWRFARSDELTRHYRK
 HTGQRPFRQCQLCPRAFSRSDHLALHMKRHL

Purity	Greater than 85% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Storage	Store at -20°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

GENE INFORMATION

Gene Name	KLF1 Kruppel like factor 1 [Homo sapiens (human)]
Official Symbol	KLF1
Synonyms	CDAN4; EKLF; EKLF PEN
Gene ID	10661
mRNA Refseq	NM_006563.5

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Protein Refseq	NP_006554.1
MIM	600599
UniProt ID	Q13351

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