

Recombinant Full Length Human transcription factor EB Protein, T7&His&TEV tagged

Cat. No. TFEB-12H Lot. No. (See product label)

SPECIFICATION

Product Overview	Full-length human TFEB (475 aa, Isoform-1. derived from BC032448) gene was constructed with codon optimized gene synthesis technology, and fusion with 30 aa N-terminal T7 / His / TEV cleavage site Tag. It was expressed in E.coli as inclusion bodies.
Species	Human
Source	E.coli
Description	Enables DNA-binding transcription factor activity; enzyme binding activity; and transcription cis-regulatory region binding activity. Involved in several processes, including antibacterial innate immune response; cellular response to amino acid starvation; and positive regulation of transcription by RNA polymerase II. Located in cytosol and lysosomal membrane. Is active in nucleus.
Tag	N-T7&His&TEV
Form	Sterile-filtered
AA Sequence	MASMTGGGQMGRGRHHHHHHENLYFQGGFASRIGLRMQLMREQAQQEEQRERMQ QQAVMHYMQQQQQQQQQQLGGPPTPAINTPVHVFQSPPPVPGEVLKVQSYLENPT SYHLQQSQHQKVREYLSSETYGNKFAAHISPAQGSPPKPPPAASPGVRAGHVLSSSAG NSAPNSPMAMLHIGSNPERELDDVIDNIMRLDDVLGYINPEMQMPNTLPLSSSHLNV YSSDPQVTASLVGVTSSSCPADLTQKRELDAESRALAKERQKKDNHNLIERRRRF

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NINDRIKELGMLIPKANDLDVRWNKGITLKASVDYIRRMQKDLQKSRELENHSRRLE
MTNKQLWLRIQELEMQARVHGLPTTSPSGMNMAELAQQVVKQELPSEEGPGEALM
LGAEVPDPEPLPALPPQAPLPLPTQPPSPFHHLDFSHLSLFGGREDEGPPGYPEPL
APGHGSPFPSSLKKDLMLLDDSLPLASDPLLSTMSPEASKASSRRSSFSMEEG
DVL

Purity > 90% by SDS-PAGE

Applications

1. May be used for in vitro TFEB mediated autophagy-lysosome activation regulation study.
2. May be used as specific protein substrate for kinase and ubiquitin (Sumo pathway) related enzyme functional screening assays.
3. May be used for TFEB protein-protein interaction mapping.
4. As immunogen for specific antibody production.

Storage

In Liquid. Keep at -80 centigrade for long term storage. Product is stable at 4 centigrade for at least 7 days.

Storage Buffer

20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.

Concentration

1.0 mg/mL

Reference

1. Rushika M.Perera, et al., Transcriptional control of autophagy-lysosome function drives pancreatic cancer metabolism. Nature. Vol 524, 361-365 (2015)
2. Magini A, et al., TFEB activation promotes the recruitment of lysosomal glycohydrolases beta-hexosaminidase and beta-galactosidase to the plasma membrane. Biochem. Biophys. Res. Commun. 440 (2), 251-257 (2013)
3. Song W, et al., TFEB regulates lysosomal proteostasis. Hum. Mol. Genet. 22 (10), 1994-2009 (2013)

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GENE INFORMATION

Gene Name	TFEB transcription factor EB [Homo sapiens (human)]
Official Symbol	TFEB
Synonyms	TFEB; transcription factor EB; TCFEB; BHLHE35; ALPHATFEB; transcription factor EB; T-cell transcription factor EB; class E basic helix-loop-helix protein 35
Gene ID	7942
mRNA Refseq	NM_007162
Protein Refseq	NP_009093
MIM	600744
UniProt ID	P19484

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