ZBED1 Protein, Human (His)

Cat. No.:	HY-P71047
Synonyms:	Zinc Finger BED Domain-Containing Protein 1; Putative Ac-Like Transposable Element; dREF Homolog; ZBED1; ALTE; DREF; KIAA0785; TRAMP
Species:	Human
Source:	E. coli
Accession:	O96006 (N3-E100)
Gene ID:	9189
Molecular Weight:	Approximately 14.0 kDa

PROPERTIES

AA Sequence	N K S L E S S Q T D L K L V A H P R A K S K V W K Y F G F D T N A E G C I L Q W K K I Y C R I C M A Q I A Y S G N T S N L S Y H L E K N H P E E F C E F V K S N T E Q M R E A F A T A F S K L K P E
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	The ZBED1 protein functions as an E3-type small ubiquitin-like modifier (SUMO) ligase, catalyzing the sumoylation of CHD3/Mi2-alpha, leading to its dissociation from DNA and subsequent relief of transcriptional repression. This event enhances the recruitment of RNA polymerase II to gene promoters, positively regulating the transcription of various genes, including H1-5 and ribosomal proteins like RPS6, RPL10A, and RPL12. The heightened transcriptional activity orchestrated by ZBED1 promotes cell proliferation, contributing to cellular growth. ZBED1 specifically binds to 5'-TGTCG[CT]GA[CT]A-3' consensus sequences in the gene promoters of ribosomal proteins . In the context of microbial infection, ZBED1 also binds to human adenovirus gene promoters, playing a role in transcriptional repression and impeding virus growth during the early stages of infection.

Caution: Product has not been fully validated for medical applications. For research use only.

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