

Product Data Sheet

EBP1 Protein, Human (His)

Cat. No.:	HY-P75726
Synonyms:	Proliferation-associated protein 2G4; hG4-1; ErbB3-binding protein 1; PA2G4
Species:	Human
Source:	E. coli
Accession:	Q9UQ80-1 (S2-D394)
Gene ID:	5036
Molecular Weight:	Approximately 45 kDa

PROPERTIES

AA Sequence					
	SGEDEQQEQT	IAEDLVVTKY	KMGGDIANRV	LRSLVEASSS	
	GVSVLSLCEK	GDAMIMEETG	КІҒККЕКЕМК	KGIAFPTSIS	
	VNNCVCHFSP	LKSDQDYILK	EGDLVKIDLG	VHVDGFIANV	
	AHTFVVDVAQ	GTQVTGRKAD	VIKAAHLCAE	AALRLVKPGN	
	QNTQVTEAWN	К	IEGMLSHQLK	QHVIDGEKTI	
	IQNPTDQQKK	DHEKAEFEVH	EVYAVDVLVS	SGEGKAKDAG	
	QRTTIYKRDP	SKQYGLKMKT	SRAFFSEVER	RFDAMPFTLR	
	AFEDEKKARM	GVVECAKHEL	LQPFNVLYEK	EGEFVAQFKF	
	ТVLLMPNGPM	RITSGPFEPD	LYKSEMEVQD	AELKALLQSS	
	ASRKTQKKKK	ККАЅКТАЕNА	TSGETLEENE	A G D	
Appearance	Lyophilized powder				
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 8.0.				
Endotoxin Level	<1 EU/µg, determined by L	AL method.			
Reconsititution				dH ₂ O. For long term storage it is	
	recommended to add a cai	rrier protein (0.1% BSA, 5%	HSA, 10% FBS or 5% Trehald	ose).	
Storage & Stability				°C for longer (with carrier protein). It is	
	recommended to freeze ali	iquots at -20°C or -80°C for e	extended storage.		
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Shipping	Room temperature in cont	inental US; may vary elsewh	nere.		

DESCRIPTION	
Background	The EBP1 protein is implicated in playing a role in an ERBB3-regulated signal transduction pathway and is associated with growth regulation. It acts as a corepressor of the androgen receptor (AR) and is modulated by the ERBB3 ligand neuregulin-

1/heregulin (HRG). Furthermore, EBP1 inhibits transcription of some E2F1-regulated promoters, potentially by recruiting histone acetylase (HAT) activity. It exhibits RNA-binding capabilities and associates with various mature and precursor rRNAs, suggesting involvement in the regulation of intermediate and late steps of rRNA processing and ribosome assembly. Additionally, EBP1 mediates cap-independent translation of specific viral internal ribosomal entry sites (IRESs). Functionally, it plays a role in regulating cell proliferation, differentiation, and survival, with isoform-specific effects on apoptosis suppression (isoform 1) and cell differentiation promotion (isoform 2). The protein interacts with various partners, including the cytoplasmic domain of ERBB3, and exhibits dynamic associations with AR, NCL/nucleolin, HDAC2, RB1, AKT1, RNF20, HUWE1, and DNAJC21, highlighting its versatility in engaging with diverse cellular components and participating in intricate molecular processes.

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

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