ERG Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71733
Synonyms:	ERG3; included; ets related; ETS-related gene; KCNH2; Oncogene TMPRSS2/ERG fusion
Species:	Human
Source:	P. pastoris
Accession:	P11308-3 (M1-Y486)
Gene ID:	2078
Molecular Weight:	Approximately 57 kDa

PROPERTIES

AA Sequence	M I Q T V P D P A A H I K E A L S V V S E D Q S L F E C A Y G T P H L A K T E M T A S S S S D Y G Q T S K M S P R V P Q Q D W L S Q P P A R V T I K M E C N P S Q V N G S R N S P D E C S V A K G G K M V G S P D T V G M N Y G S Y M E E K H M P P P N M T T N E R R V I V P A D P T L W S T D H V R Q W L E W A V K E Y G L P D V N I L L F Q N I D G K E L C K M T K D D F Q R L T P S Y N A D I L L S H L H Y L R E T P L P H L T S D D V D K A L Q N S P R L M H A R N T G G A A F I F P N T S V Y P E A T Q R I T T R P D L P Y E P P R R S A W T G H G H P T P Q S K A A Q P S P S T V P K T E D Q R P Q L D P Y Q I L G P T S S R L A N P G S G Q I Q L W Q F L L E L L S D S S N S S C I T W E G T N G E F K M T D P D E V A R R W G E R K S K P N M N Y D K L S R A L R Y Y Y D K N I M T K V H G K R Y A Y K F D F H G I A Q A L Q P H P P E S S L Y K Y P S D L P Y M G S Y H A H P Q K M N F V A P H P P A L P V T S S S F F A A P N P Y W N S P T G G I Y P N T R L P T S H M P S H L G T Y Y
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 20 mM Tris-HC1, 0.5 M NaCl, 6% Trehalose, pH 8.0
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.
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	ERG, a transcriptional regulator, is implicated in the modulation of gene expression by potentially facilitating transcriptional regulation through the recruitment of SETDB1 histone methyltransferase and subsequent modification of local chromatin structure. Moreover, ERG has been identified as part of an IGF2BP1-dependent mRNP granule complex that contains untranslated mRNAs, suggesting its involvement in post-transcriptional processes. The interaction with SETDB1 underscores its role in the dynamic interplay of molecular components within cellular pathways, contributing to the intricate regulation of gene expression and chromatin organization.

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