

AP-2 gamma/TFAP2C Protein, Human (His)

Cat. No.:	HY-P76728
Synonyms:	Transcription factor AP-2 gamma; Transcription factor ERF-1
Species:	Human
Source:	E. coli
Accession:	Q92754-1 (L128-V223)
Gene ID:	7022
Molecular Weight:	Approximately 10-14 kDa

PROPERTIES

AA Sequence	<p> L S G L E A G A V S A R R D A Y R R S D L L L P H A H A L D A A G L A E N L G L H D M P H Q M D E V Q N V D D Q H L L L H D Q T V I R K G P I S M T K N P L N L P C Q K E L V G A V M N P T E V </p>
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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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	<p> AP-2 gamma/TFAP2C protein serves as a sequence-specific DNA-binding factor, engaging with inducible viral and cellular enhancer elements to intricately regulate transcription of specific genes. Recognizing the consensus sequence 5'-GCCNNNGGC-3', AP-2 gamma activates genes crucial for diverse biological functions, spanning proper eye, face, body wall, limb, and neural tube development. Simultaneously, it exerts a suppressive influence on several genes, including MCAM/MUC18, C/EBP alpha, and MYC. This protein also plays a pivotal role in the MTA1-mediated epigenetic control of ESR1 expression in breast cancer. Operating as a dimer, AP-2 gamma can form homodimers or heterodimers with other members of the AP-2 family. Notably, it engages in various protein interactions, including those with WWOX, CITED4, UBE2I, KCTD1, CITED2, and MTA1, each contributing to the complex regulatory network governing transcriptional activity. </p>
-------------------	--

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA