

## ATF1 Protein, Human (His)

<b>Cat. No.:</b>	HY-P7615
<b>Synonyms:</b>	rHuATF1, His; Cyclic AMP-dependent transcription factor ATF-1; cAMP-dependent transcription factor ATF-1; Activating transcription factor 1
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P18846 (M1-V271)
<b>Gene ID:</b>	466
<b>Molecular Weight:</b>	Approximately 34.8 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> M E D S H K S T T S   E T A P Q P G S A V   Q G A H I S H I A Q   Q V S S L S E S E E S Q D S S D S I G S   S Q K A H G I L A R   R P S Y R K I L K D   L S S E D T R G R K G D G E N S G V S A   A V T S M S V P T P   I Y Q T S S G Q Y I   A I A P N G A L Q L A S P G T D G V Q G   L Q T L T M T N S G   S T Q Q G T T I L Q   Y A Q T S D G Q Q I L V P S N Q V V V Q   T A S G D M Q T Y Q   I R T T P S A T S L   P Q T V V M T S P V T L T S Q T T K T D   D P Q L K R E I R L   M K N R E A A R E C   R R K K K E Y V K C L E N R V A V L E N   Q N K T L I E E L K   T L K D L Y S N K S   V H H H H H H </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	Activating transcription factor 1 (ATF1) is a member of the ATF/CREB family of transcription factors (TFs), specifically interacting with the consensus ATF/CRE site 'TGACGTCA'. CREB and ATF1 are required for t-Darpp upregulating Bcl-2 levels in resistance to ceramide-induced apoptosis in gastric cancer. Furthermore, expression of single chain antibody fragment anti-ATF1 in melanoma cells is found to suppresses the ATF1 tumorigenicity and metastatic potential in nude mice <sup>[1]</sup> .
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## REFERENCES

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[1]. Guo-Liang Huang, et al. The protein level and transcription activity of activating transcription factor 1 is regulated by prolyl isomerase Pin1 in nasopharyngeal carcinoma progression. Cell Death Dis. 2016 Dec 29;7(12):e2571.

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

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