
Product Data Sheet

Product Name: ATF4 Human
 Cat. No.: GP22423
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms Cyclic AMP-dependent transcription factor ATF-4; cAMP-dependent transcription factor; ATF-4; Activating transcription factor 4; Cyclic AMP-responsive element-binding protein 2; CREB-2; cAMP-responsive element-binding protein 2; DNA-binding protein; TAXREB67; Tax-responsive enhancer element-binding protein 67; TaxREB67; ATF4; CREB2; TXREB.

Amino Acid Sequence
 MHHHHHMHAD QLTEEQIAEF KEAFSLFDKD GDGTITTKEL GTVMRSLGQN
 PTEAELQDMI NEVDADGNGT IDFPEFLTMM ARKMKDTDSE EEIREAFRVF
 DKDGNGYISA AELRHVMTNL GEKLTDEEVD EMIREADIDG DGQVNYEEFV
 QMMTAKGSHM TEMSFLSSEV LVGDLMSPFD QSGLGAEESL GLLDDYLEVA
 KHFKPHGFSS DKAKAGSSEW LAVDGLVSPS NNSKEDAFSG TDWMLEKMDL
 KEFDLDALLG IDDLETMPDD LLTTLDDTCD LFAPLVQETN KQPPQTVNPI
 GHLPELTKP DQVAPFTFLQ PLPLSPGVLS STPDHSFSLE LGSEVDITEG
 DRKPDYTAYV AMIPQCIKEE DTPSDNDSGI CMSPESYLGS PQHSPSTRGS
 PNRSLPSPGV LCGSARPKPY DPPGEKMVAA KVKGEKLDKK LKKMEQNKTA
 ATRYRQKKRA EQEALTGECK ELEKKNEALK ERADSLAKEI QYLKDLIEEV
 RKARGKKRVP.

Formulation ATF4 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 10% glycerol.

Introduction

Activating transcription factor 4 (ATF4) is a member of a family of DNA-binding proteins which includes the AP-1 family of transcription factors, cAMP-response element binding proteins and CREB-like proteins. The ATF4 gene encodes a transcription factor which was initially identified as a widely expressed mammalian DNA binding protein that could

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

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bind a tax-responsive enhancer element in the LTR of HTLV-1.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ATF4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 510 amino acids (1-351 a.a.) and having a molecular mass of 56.6kDa. ATF4 is fused to a 159 amino acid His-Calmodulin-tag at N-terminus & purified by proprietary chromatographic techniques.

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