

MAX Protein, Human (His)

Cat. No.:	HY-P70388
Synonyms:	rHuMAX, His; Protein Max; Class D Basic Helix-Loop-Helix Protein 4; bHLHd4; ; Myc-Associated Factor X; MAX; BHLHD4
Species:	Human
Source:	E. coli
Accession:	P61244-2 (M1-S151)
Gene ID:	4149
Molecular Weight:	Approximately 21.0 kDa

PROPERTIES

AA Sequence	<pre> MSDNDDIEVE SDADKRAHNN ALERKRRDHI KDSFHSLRDS VPSLQGEKAS RAQILDKATE YIQYMRRKNH THQQDIDDLK RQNALLEQQV RALEKARSSA QLQTNYPSSD NSLYTNAKGS TISAFDGGSD S S S E S E P E E P QSRKKLRMEA S </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 250 mM NaCl, pH 8.5.
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>MAX, a transcription regulator, forms a sequence-specific DNA-binding protein complex either with MYC, promoting transcriptional activation, or with MAD, leading to transcriptional repression, recognizing the core sequence 5'-CAC[GA]TG-3'. MAX may act as a transcriptional repressor by recruiting a chromatin remodeling complex with H3 'Lys-9' histone methyltransferase activity and repressing MYC transcriptional activity from E-box elements. Efficient DNA binding requires dimerization with another bHLH protein. It binds DNA as a heterodimer with either MYC or MAD. MAX is part of the E2F6.com-1 complex during the G₀ phase, along with various other components. It is also a component of some MLL1/MLL complexes, contributing to the regulation of gene expression. MAX interacts with SPAG9, and when in a heterodimer with MYC, it interacts with ABI1, potentially enhancing MYC:MAX transcriptional activity. MAX's versatility in forming complexes with</p>
-------------------	--

different partners underscores its role as a key modulator of gene expression.

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