

MAX Protein, Human (sf9, His-GST)

Cat. No.:	HY-P73832
Synonyms:	Protein Max; MAX; BHLHD4; Myc-associated factor X
Species:	Human
Source:	Sf9 insect cells
Accession:	P61244 (M1-S160)
Gene ID:	4149
Molecular Weight:	Approximately 73 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 8.0, 10% Glycerol. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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.
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	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 different partners underscores its role as a key modulator of gene expression.
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Caution: Product has not been fully validated for medical applications. For research use only.

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