Proteins



Coagulation Factor II/F2 Protein, Mouse (HEK293, His)

Cat. No.: HY-P72944

Synonyms: Prothrombin; Coagulation factor II

Species: Mouse Source: HEK293

Accession: Q3TJ94 (Q25-G618)

Gene ID: 14061

Molecular Weight: Approximately 85 kDa

PROPERTIES

TROTERTIES	,			
AA Sequence				
·	QHVFLAPQQA	LSLLQRVRRA	NSGFLEELRK	GNLERECVEE
	QCSYEEAFEA	LESPQDTDVF	WAKYTVCDSV	RKPRETFMDC
	LEGRCAMDLG	VNYLGTVNVT	HTGIQCQLWR	SRYPHKPEIN
	STTHPGADLK	ENFCRNPDSS	TTGPWCYTTD	PTVRREECSV
	PVCGQEGRTT	VVMTPRSGGS	KDNLSPPLGQ	CLTERGRLYQ
	GNLAVTTLGS	PCLPWNSLPA	KTLSKYQDFD	PEVKLVENFC
	RNPDWDEEGA	$W\;C\;Y\;V\;A\;G\;Q\;P\;G\;D$	FEYCNLNYCE	EAVGEENYDV
	DESIAGRTTD	AEFHTFFNEK	TFGLGEADCG	LRPLFEKKSL
	KDTTEKELLD	SYIDGRIVEG	WDAEKGIAPW	QVMLFRKSPQ
	ELLCGASLIS	DRWVLTAAHC	ILYPPWDKNF	TENDLLVRIG
	KHSRTRYERN	VEKISMLEKI	YVHPRYNWRE	NLDRDIALLK
	LKKPVPFSDY	IHPVCLPDKQ	TVTSLLRAGY	$K\;G\;R\;V\;T\;G\;W\;G\;N\;L$
	RETWTTNINE	IQPSVLQVVN	LPIVERPVCK	ASTRIRITDN
	MFCAGFKVND	TKRGDACEGD	SGGPFVMKSP	FNNRWYQMGI
	VSWGEGCDRK	GKYGFYTHVF	RLKRWIQKVI	DQFG
Biological Activity	Measured by its ability to cleave a peptide substrate, BOC-Val-Pro-Arg-AMC. Read at excitation and emission 380 nm and 460 nm (top read). The specific activity is 25888.119 pmoL/min/μg, as measured under the descr			
ppearance	Lyophilized powder			
ormulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.			
ndotoxin Level	<1 EU/µg, determined by LAL method.			
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage 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 prorecommended to freeze aliquots at -20°C or -80°C for extended storage.			

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Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The Coagulation Factor II/F2 protein, commonly known as thrombin, plays a pivotal role in various physiological processes. Operating as a serine protease, thrombin cleaves bonds following Arg and Lys residues, leading to the conversion of fibrinogen into fibrin. Moreover, thrombin activates several crucial factors, including V, VII, VIII, XIII, and, when in conjunction with thrombomodulin, protein C. Beyond its fundamental role in blood homeostasis, thrombin also contributes to inflammation and the intricate process of wound healing.

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

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