
Product Data Sheet

Product Name: CBX1 Human
 Cat. No.: GP22977
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Chromobox homolog 1; CBX; M31; HP1-BETA; HP1Hs-beta; MOD1; Heterochromatin protein 1 homolog beta; Modifier 1 protein; p25beta; Chromobox homolog 1 (Drosophila HP1 beta); Heterochromatin protein p25.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGKKQNKKKV EEVLEEEEE YVVEKVLDRR VVKGKVEYLL KWKGFSDN TWEPEENLDC PDLIAEFLQS QKTAHETDKS EGGKRKADSD SEDKGEESKP KKKKEESEKP RGFARGLEPE RIIGATDSSG ELMFLMKWKN SDEADLVPK EANKCPQVW ISFYEERLTW HSYPSEDDDK KDDKN		
Formulation	CBX1 protein 1mg/ml is supplied in 20mM Tris-HCl, pH-8, 0.1M NaCl, 2mM DTT and 20% Glycerol.		

Introduction

CBX1 is an enriched heterochromatin which belongs to the heterochromatin protein family. The centromeres related CBX1 identifies and binds histone H3 tails methylated at 'Lys-9', causing epigenetic repression. Collaboration with lamin B receptor (LBR) can impact the relations between the heterochromatin and the inner nuclear membrane. CBX1 has a vital part in the epigenetic control of chromatin structure and gene expression.

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

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

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CBX1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 205 amino acids (1-185) and having a molecular mass of 23.6kDa (molecular weight on SDS-PAGE will appear higher).The CBX1 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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