Product Information

CHD1 chromodomains (human recombinant)
Item No. 14772 • Batch No. XXXXXX

Synonyms: ATP-Dependent Helicase CHD1, Chromodomain Helicase DNA Binding Protein 1
Source: Recombinant N-terminal GST-tagged protein expressed in E. coli
Amino Acids: 269-452 (N- and C-terminal truncation)
GenBank Accession No.: NP_001261
M₉: 49.3 kDa
Purity: ≥95%
Stability: ≥6 months at -80°C; avoid freeze/thaw cycles by aliquoting protein.
Supplied in: 50 mM Tris, pH 8.0, containing 150 mM sodium chloride and 20% glycerol
Protein Concentration: batch specific mg/ml

Chromodomain helicase DNA binding protein 1 (CHD1) is an ATP-dependent chromatin remodeler that recognizes di- or trimethylated histone H3 at lysine 4 (H3K4me2/3). CHD1 binds to H3K4me3 and is a component of pre-initiation complexes that also contain Mediator. The two chromodomains of CHD1 are necessary for recognition of H3K4me3. Knockdown of CHD1 by shRNA leads to an increase in the markers of heterochromatin. In embryonic stem cells, shRNA against CHD1 leads to decreased proliferation and increased expression of neural markers. Spontaneous deletion in prostate cells causes morphological changes correlated with invasiveness. Finally, deletion of CHD1 in yeast results in decreased levels of histone H2B monoubiquitination.

This protein product contains the two chromodomains of CHD1.

References

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