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## Product Data Sheet

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Product Name: CHD4 Human  
Cat. No.: GP23141  
Batch No.: 1

### Product Data

|                     |  |                    |                         |
|---------------------|--|--------------------|-------------------------|
| Purity              | >98%   | Source             | Sf9 insect cells.       |
| Physical Appearance | solid  | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | Chromodomain Helicase DNA binding protein 4; Mi-2b; Mi2-BETA; CHD-4; ATP-dependent helicase CHD4; Mi-2 autoantigen 218 kDa protein; EC 3.6.4.12; EC 3.6.1. |                    |                         |
| Formulation         | CHD4 is supplied in 20mM HEPES buffer pH-8.0 and 500mM NaCl.   |                    |                         |

### Introduction

CHD4 is a member of a family of alleged chromodomain helicase-DNA-binding proteins. Biochemically, CHD4 is a component of the nucleosome transformation and deacetylase (NuRD) complex that takes part in transcription regulation. Autoantibodies targeting the CHD4 are a serologic feature of idiopathic inflammatory myopathies (IIM). In IIM Mi-2 antibodies are characterized by diagnostic sensitivity and specificity of approximately 4-18% and 98-100%, respectively. Moreover, anti-CHD4 antibodies are related to dermatomyositis (frequency up to 31%) and have a great positive predictive value for this type of disease subset. Anti-CHD4 are the only defined myositis-specific autoantibodies clearly focused to a nuclear target. An additional slightly outstanding feature of Mi-2 antibodies relates to their frequency in children, which is similar to that in adults.

### 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. Avoid multiple freeze-thaw cycles.

### Background

CHD4 is a full-length cDNA coding for the human Mi-2beta isoform having a molecular mass of 221,298 Dalton (pH 5.8). CHD4 protein is fused to a hexa-histidine purification tag.

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

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