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## Product Data Sheet

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Product Name: ID1 Human  
 Cat. No.: GP23690  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	bHLHb24; ID; DNA-binding protein inhibitor ID-1; Class B basic helix-loop-helix protein 24; Inhibitor of DNA binding 1; ID1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMKVASGS TATAAAGPSC ALKAGKTASG AGEVVRCLSE QSVAISRCAG GAGARLPALL DEQQVNVLLY DMNGCYSRLK ELVPTLPQNR KVSKVEILQH VIDYIRDLQL ELNSESEVGT PGGRGLPVRA PLSTLNGEIS ALTAEAACVP ADDRILCR.		
Formulation	The ID1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

### Introduction

Inhibitor of DNA Binding 1 (ID1) is a helix-loop-helix protein which can form heterodimers with members of the basic HLH family of transcription factors. ID1 is lacking DNA binding activity and thus can inhibit the DNA binding and transcriptional activation ability of basic HLH proteins with which it interacts. ID1 participates in cell growth, senescence, and differentiation.

### 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

ID1 Human Recombinant produced in E. coli is a single polypeptide chain containing 178 amino acids (1-155) and having a molecular mass of 18.5kDa. ID1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

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