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## Product Data Sheet

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Product Name: ID2 Human  
 Cat. No.: GP23691  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DNA-binding protein inhibitor ID-2; bHLHb26; GIG8; ID2A; ID2H; MGC26389; Class B basic helix-loop-helix protein 26; Inhibitor of DNA binding 2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MKAFSPVRSV RKNLSLDHSL GISRSKTPVD DPMSLLYNMN DCYSKLELV PSIPQNKKVS KMEILQHVID YILDLQIALD SHPTIVSLHH QRPQONQASR TPLTTLNTDI SILSLQASEF PSELMNSNSK ALCG.		
Formulation	ID2 protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M Urea.		

### Introduction

Inhibitor of DNA Binding 2 (ID2) is a part of the inhibitor of DNA binding family, whose members are transcriptional regulators that contain a helix-loop-helix (HLH) domain but not a basic domain. Members of the ID family inhibit the functions of basic helix-loop-helix transcription factors in a dominant-negative way by suppressing their heterodimerization partners through the HLH domains. ID2 play a role in negatively regulating cell differentiation and may be an inhibitor of tissue-specific 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

ID2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 154 amino acids (1-134 a.a.) and having a molecular mass of 17kDa. ID2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary

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

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chromatographic techniques.

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