

## ID2 Human

**Description:** 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 chromatographic techniques.

**Catalog #:** PRPS-1390

For research use only.

**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.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MKAFSPVRSV RKNLSLDHSL  
GISRSKTPVD DPMSLLYNMN DCYSKLELV PSIPQNKQVS KMEILQHVID YILDQLIALD  
SHPTIVSLHH QRPQGNQASR TPLTTLNTDI SILSLQASEF PSELMNSDSK ALCG.

**Purity:** Greater than 85% as determined by SDS-PAGE.

### Formulation:

ID2 protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M Urea.

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### 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.

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