

## ID1 Protein, Human, Recombinant (His & SUMO)

### General Information

Synonyms:	Inhibitor of differentiation 1;DNA-binding protein inhibitor ID-1;ID;ID1;BHLHB24;Class B basic helix-loop-helix protein 24 (bHLHb24);Inhibitor of DNA binding 1
Protein Construction:	1-155 aa
Species:	Human
Expression Host:	E. coli
Accession:	P41134
Molecular Weight:	32.1 kDa (predicted)
AA Sequence:	MKVASGSTATAAAGPSCALKAGKTASGAGEVVRLSEQSV AISRCAGGAGARLPALLDEQVNVLLYDMNG CYSRLKELVPTLPQNRKVKVEILQHVIDYIRDLQLELNSESEVGTGGGRGLPVRAPLSTLNGEISALTAEEAACV PADDRILCR

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Transcriptional regulator (lacking a basic DNA binding domain) which negatively regulates the basic helix-loop-helix (bHLH) transcription factors by forming heterodimers and inhibiting their DNA binding and transcriptional activity. Implicated in regulating a variety of cellular processes, including cellular growth, senescence, differentiation, apoptosis, angiogenesis, and neoplastic transformation. Inhibits skeletal muscle and cardiac

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myocyte differentiation. Regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-ARNTL/BMAL1 heterodimer.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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