

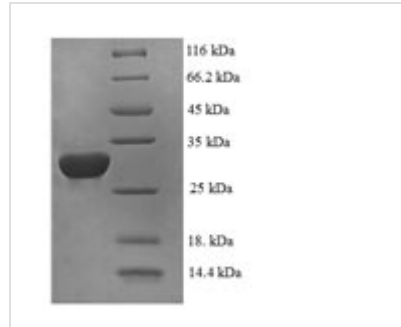


Recombinant Human DNA-binding protein inhibitor ID-2(ID2)

Product Code	CSB-EP010967HU
Relevance	<p>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 myocyte differentiation. Regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-ARNTL/BMAL1 heterodimer. Restricts the CLOCK and ARNTL/BMAL1 localization to the cytoplasm. Plays a role in both the input and output pathways of the circadian clock: in the input component, is involved in modulating the magnitude of photic entrainment and in the output component, contributes to the regulation of a variety of liver clock-controlled genes involved in lipid metabolism.</p>
Storage	<p>The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.</p>
Uniprot No.	Q02363
Storage Buffer	Tris-based buffer,50% glycerol
Alias	Class B basic helix-loop-helix protein 26 ;bHLHb26Inhibitor of DNA binding 2Inhibitor of differentiation 2
Product Type	Recombinant Protein
Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MKAFSPVRSVRKNSLSDHSLGISRSKTPVDDPMSLLYNMNDYCYSKCLKELVPSI PQNKVKVSKMEILQHVIDYILDQLIALDSHTIVSLHHQRPGQNQASRTPLTTLNT DISILSLQASEFPSELMSNSKALCG
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Gene Names	ID2
Expression Region	1-134aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	30.9kDa

**Protein Description**

Full Length

Image

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.