

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

Catalog No: #AP70413

Package Size: #AP70413-1 20ug #AP70413-2 100ug #AP70413-3 1mg

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Description

Product Name	Recombinant Human DNA-binding protein inhibitor ID-2(ID2)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-134aaSequence Info:Full Length
Other Names	Class B basic helix-loop-helix protein 26 ;bHLHb26Inhibitor of DNA binding 2Inhibitor of differentiation 2
Accession No.	Q02363
Calculated MW	30.9 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MKAFSPVRSVRKNSLSDHSLGISRSKTPVDDPMSLLYNMNDCCYSLKELVPSIPQNKVKSKMEILQHVIDYILD QIALDSHTIVSLHHQRPQGQNASRTPLTTLNTDISILSLQASEFPSELMSNDSKALCG
Formulation	Tris-based buffer50% glycerol
Storage	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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

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 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.

References

An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome.Bian Y., Song C., Cheng K., Dong M., Wang F., Huang J., Sun D., Wang L., Ye M., Zou H.J. Proteomics 96:253-262(2014)Research Topic:Epigenetics and Nuclear Signaling

Note: This product is for in vitro research use only and is not intended for use in humans or animals.