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Modulation Of Protein Stability In

An intein-mediated modulation of protein stability system and its application to study human cytomegalovirus essential gene function. Functional analysis of the essential proteins encoded by human cytomegalovirus (HCMV) is hindered by the lack of complementing systems. To overcome this difficulty, we have established a novel approach, termed the intein-mediated modulation of protein stability (imPS), in which a destabilizing domain

An intein-mediated modulation of protein stability system ...

When the protein properties such as fluorescent activity, folding rate and

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kinetic stability were assessed, we found the possibility that the protein stability can be modulated independently of activity and folding by engineering protein surface charges. The aggregation properties of GFP could also be altered through the surface charge engineering.

Modulation of protein stability and aggregation properties ...

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Several pVHL independent pathways that alter HIF α protein stability have recently been identified, and the availability of inhibitors in clinical trials makes these pathways attractive for further investigation. ... Modulation of Protein Stability: Targeting the VHL Pathway. In: Rubin E., Sakamoto K. (eds) Modulation of Protein Stability in ...

Modulation of Protein Stability: Targeting the VHL Pathway ...

Abstract The post-translational modification of proteins by the covalent attachment of carbohydrates to specific side chains, or glycosylation, is emerging as a crucial process in modulating the function of proteins. In particular, the dynamic processing of the oligosaccharide can correlate with a change in function.

Modulation of protein stability by O-

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glycosylation in a ...

of protein modulation in cancer therapeutics focuses on targeting molecules that regulate protein stability in a variety of tumors topics covered include ubiquitin ligases deubiquitinating enzymes and the proteasome modulation of protein stability in cancer therapy by angelika m burger arun k seth auth eric rubin kathleen sakamoto eds 2009 165 pages isbn 038769143x pdf 2 mb this book contains chapters written by experts in the field of the ubiquitin proteasome system and cancer the inactivation

Modulation Of Protein Stability In Cancer Therapy [EPUB]

Electrodynamic pressure modulation of protein stability in cosolvents. Damodaran S(1). Author information: (1)Department of Food Science, University of Wisconsin-Madison , Madison, Wisconsin 53706, United States. Cosolvents affect structural stability of proteins in aqueous solutions.

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Electrodynamic pressure modulation of protein stability in ...

Although natural glycosylation could commonly increase the thermodynamic stability of conjugated proteins, sometimes glycosylation may break long-range protein-protein interactions and induce a destabilization effect.

Modulation of protein activity and assembled structure by ...

This comprehensive monograph on the role of protein modulation in cancer therapeutics focuses on targeting molecules that regulate protein stability in a variety of tumors. Topics covered include ubiquitin ligases, deubiquitinating enzymes, and the proteasome.

Modulation of Protein Stability in Cancer Therapy ...

Regulation of mRNA stability and translation by RNA-binding proteins (RBPs). They mainly influence the fates

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of target mRNAs at the post-transcriptional levels. In the cytoplasm, stabilized mRNAs are protected from degradation leading to more protein levels. Destabilized mRNAs are driven to degradation machinery leading to lower protein levels.

Modulation of Gene Expression by RNA Binding Proteins ...

We propose that modulation of CMU protein levels and microtubule localization by FRA1 provides a mechanism that stabilizes the sites of deposition of both cellulose and matrix polysaccharides. Received September 9, 2019. Revised May 18, 2020. Accepted May 29, 2020.

FRA1 Kinesin Modulates the Lateral Stability of Cortical ...

Caloric restriction (CR) is an intervention that slows down aging and reduces the incidence of age-related disease from the unicellular baker's yeast (Lin et al., 2000) to rhesus monkeys (Mattison et

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al., 2017). CR-induced reduced nutrient signaling via insulin/insulin-like growth factor (IGF-1), the target-of-rapamycin and/or protein kinase A pathways is intimately linked to lifespan ...

Peroxioredoxin promotes longevity and H₂O₂-resistance in ...

The stability of ethylene signaling protein EIN2 is modulated by the two F-box proteins ETP1/2, while the EIN3 is regulated by another two F-box proteins EBF1/2 (34 ↓ -36). The auxin receptor is a small family of related F-box proteins (37), which triggers nuclear auxin signaling by targeting transcriptional repressor Aux/IAA proteins for degradation (38).

E3 ubiquitin ligase SOR1 regulates ethylene response in ...

LSD1 regulates HIF-1 α protein stability in a RACK1-dependent manner. The fact that LSD1 depletion blocks HIF-1 α protein accumulation under hypoxia without affecting its mRNA expression

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(Figs 1 and EV1, and Appendix Fig S1) indicates that LSD1-mediated HIF-1 α regulation is achieved at the post-transcriptional level. We therefore examined the molecular mechanism of LSD1 action by investigating its effects on the stability of HIF-1 α protein.

Regulation of hypoxia responses by flavin adenine ...

This study is an important step towards the fine-tuned modulation of protein stability by design. ### Competing Interest Statement The authors have declared no competing interest. The design of stable proteins with custom-made functions is a major goal in biochemistry with practical relevance for our environment and society. High conformational ...

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