

Download Failure Of Amino Acid Homeostasis

Failure of Amino Acid Homeostasis Causes Cell Death following Proteasome Inhibition (A) Viability of NIH 3T3 cells, assessed by the reduction of WST-8 into formazan, after 2 days of growth, following treatment with 10 μ M MG-132 for 8 hr and a 20 hr washout in regular medium, with or without cysteine (Cys) and/or asparagine (Asn). The amino acid scarcity resulting from proteasome inhibition induces the classical set of responses to amino acid starvation, in an vain attempt to sustain amino acid homeostasis. Although it had been previously reported that proteasome inhibition, like many different stresses, induces eIF2 γ phosphorylation and that the resulting translation attenuation is abrogated by genetic impairment of eIF2 γ phosphorylation (Failure of Amino Acid Homeostasis Causes Cell Death following Proteasome Inhibition in Yeast. Unlike the nonsupplemented cim3-1 cells, cim3-1 cells that had been exposed to 37°C in the presence of additional amino acids were viable and gave rise to the same number of colonies as wild-type cells at 30°C (Figure 1 C). To maintain intracellular amino acid homeostasis, cells tightly co-ordinate protein synthesis with degradation. 6 Proteasome inhibition has been reported to reduce intracellular amino acids levels ..., Failure Of Amino Acid Homeostasis.

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