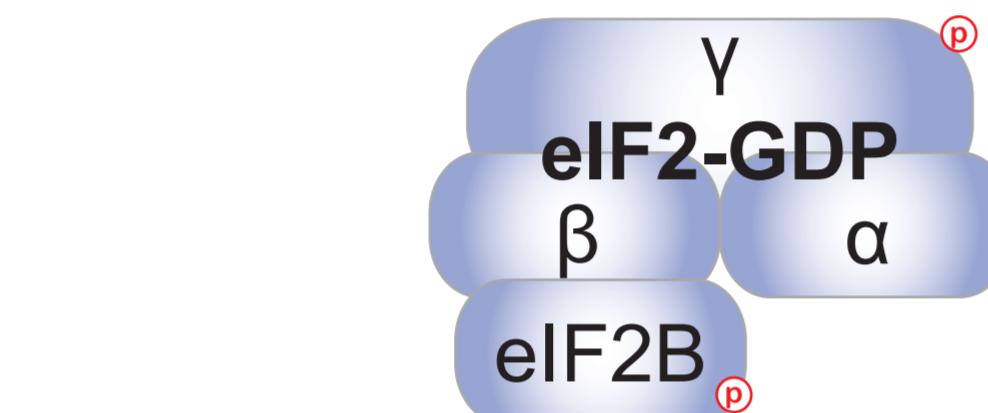




Apoptosis, Changes in
Metabolism & Redox Status

ATF-4 mRNA
Translation

Global Translation Off



eIF1
(p)

Global Translation On

43S

Met-tRNA

Growth Factors,
Hormones,etc

GSK-3β
(p)

eIF2B
(p)

γ
eIF2-GDP
β α

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β α

γ
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β α

UV,Amino Acid
Starvation

Heme Deficiency
Oxidative Stress

dsRNA

Unfolded Protein
Response,
Hypoxia

PERK
(p) PERK
(p)

PKR
(p) PKR
(p)

HRI
(p) HRI
(p)

GCN2
(p) GCN2
(p)

NCK

GADD34
(p)
PP1

Salubrinal

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