

**Name of Journal:** *World Journal of Biological Chemistry*

**ESPS Manuscript NO:** 19088

**Manuscript Type:** BASIC STUDY

**Disruption of NAD<sup>+</sup> binding site in GAPDH affects its intranuclear interactions**

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 Scott A. Gothe, Evgeny Krynetskiy

### Abstract

**AIM:** To characterize phosphorylation of human glyceraldehyde 3-phosphate

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作者: MS Phadke - 2009 - 被引用次数: 20 - [相关文章](#)

The intranuclear level of GAPDH correlates with the viability of human ... resulting in T99I mutation, is located in the vicinity of the NAD binding site, thus making .... intranuclear GAPDH accumulation based on the interaction between CRM1 and .... Because antimetabolites exert their cytotoxic effects in the S phase of the cell ...

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作者: J Oláh - 2006 - 被引用次数: 25 - [相关文章](#)

TPPP/p25, a flexible unstructured protein, binds to tubulin and induces aberrant ...

文章

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Potential role of nuclear translocation of **glyceraldehyde-3-phosphate dehydrogenase** in apoptosis [biologists.org](#) 中的 [PDF] and oxidative stress

Z Dastoor, JL Dreyer - Journal of Cell Science, 2001 - jcs.biologists.org

... a uracil DNA glycosylase (Meyer-Siegler et al., 1991) and as an Ap4A-binding protein (Baxi ... construct was ligated in frame into pEGFP or pEBFP expression vector at the XmaI restriction site. ... do not produce the GFP, only the GAPDH protein, were prepared by disrupting the GFP ...

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A novel CRM1-mediated nuclear export signal governs nuclear accumulation of **glyceraldehyde-3-phosphate dehydrogenase** following genotoxic stress [jbc.org](#) 中的 [HTML]

VM Brown, EY Krynetski, NF Krynetskaia... - Journal of Biological Chemistry, 2004 - ASBMB

... Sigma), pH 8.5, in the presence of 3.5 mM DTT, 0.26 mM NAD<sup>+</sup>, and 0.51 ... The mutation may also disrupt a hydrogen-bond interaction with Asp 256 by eliminating the positive ... direct interaction of CRM1 with wild-type GAPDH NES, but the absence of this binding causes nuclear ...

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Alteration of intracellular structure and function of **glyceraldehyde-3-phosphate dehydrogenase**: a common phenotype of neurodegenerative disorders? [infona.pl](#) 中的 [HTML]

JL Mazzola, MA Sirover - Neurotoxicology, 2002 - Elsevier

... By definition, the preparation of such samples entail the disruption of intracellular structure. ... Competitive inhibition by NAD<sup>+</sup> indicated the role of the Rossmann fold. ... Each would display its own susceptibility to neuronal protein binding. ...

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2015年4月20日 - Abstract Body: **Glyceraldehyde 3-phosphate dehydrogenase** ... that mutation in **NAD<sup>+</sup>-binding** center of GAPDH didn't **disrupt its** nuclear translocation after chemotherapeutic agents, but prevented **intranuclear interactions**.

## Abstract 1131: Disruption of the NAD<sup>+</sup>- binding site affects ...

[cancerres.aacrjournals.org/content/75/15\\_Supplement/1131](http://cancerres.aacrjournals.org/content/75/15_Supplement/1131) - [翻译此页](#)

作者: E Krynetskiy - 2015

2015年8月1日 - Abstract 1131: **Disruption of the NAD<sup>+</sup>- binding site affects GAPDH interactions** ... **Glyceraldehyde 3-phosphate dehydrogenase** (GAPDH) is a pivotal enzyme of ... modulate functions and protein **interactions** of GAPDH in the cell.... of human GAPDH polypeptide pertinent to **its intranuclear** functions, and (2) ...

## Oxidatively Modified Glyceraldehyde-3-Phosphate ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > [PubMed Central \(PMC\)](#) ▾ [翻译此页](#)

作者: DA Butterfield - 2010 - 被引用次数: 104 - [相关文章](#)

Recently, the oxidoreductase, **glyceraldehyde-3-phosphate dehydrogenase** ... highly diverse, non-glycolytic functions, as **its** expression and activity are **affected by** .... **sites**