

Effect Of Sulfur Binding On Rhodanese Fluorescence

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Effect of Sulfur Binding on Rhodanese Fluorescence. ... Chemical modification of bovine liver rhodanese with tetrathionate: differential effects on the sulfur-free and sulfur-containing catalytic intermediates, *Biochimica et Biophysica Acta (BBA) - Protein Structure and Molecular Enzymology*, 10.1016/0167-4838(87) ...

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Effect of Sulfur Binding on Rhodanese Fluorescence. March 2005; *European Journal of Biochemistry* 28(1):89 - 93; DOI: 10.1111/j.1432-1033.1972.tb01887.x. Authors: Alessandro Finazzi Agr ...

Effect of Sulfur Binding on Rhodanese Fluorescence ...

Importantly, in EndoIII and MutY, a large increase in covalency is observed upon DNA binding, which is due to the effect of its

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negative charge on the iron-sulfur bonds. In EndoIII, this change in covalency can be quantified and makes a significant contribution to the observed decrease in reduction potential found experimentally in DNA repair proteins, enabling their HiPIP-like redox behavior.

Sulfur K-Edge XAS Studies of the Effect of DNA Binding on ...

VVO is made by blending vegetable oil, sulfur, and other raw materials above the required 160°C reaction temperature. Residual sulfur within the VVO itself can cause adverse effects on the long term aging properties of a rubber compound. This effect on aging properties limits the use of VVO in certain NR applications.

The Effect of Binding Free Sulfur in Vulcanized Soybean

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Residual sulfur within the VVO itself can cause adverse effects on the long term aging properties of a rubber compound. This effect on aging properties limits the use of VVO in certain NR applications. Research on using a thiuram accelerator (TMTD) to bind the free sulfur in VVO to improve heat aging properties has been done in the past (ref. 1).

Effect of binding free sulfur in vulcanized soybean oil ...

with sulfur binding at the periphery of the silver core. We are first interested in two features of the clusters: (1) how does the addition of sulfur affect the geometry of the silver core and (2) which sites of the silver cluster do the sulfur atoms prefer to bond? The Ag n clusters are planar for $n \leq 6$ atoms as is expected based on the ...

The effect of sulfur covalent bonding on the electronic ...

A systematic study has been carried out in order to investigate the influence of the chemical bond on the occurrence of different sulfur decays to 1s vacancy states induced by electron impact.

Binding effects in sulfur K α and K β X-ray emission spectra ...

Despite the recent success in trapping soluble polysulfides via

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porous matrix and chemical binding, the important mechanism of such controllable deposition of sulfur species has not been well understood. Herein, we discovered that conductive Magnéli phase Ti_4O_7 is highly effective matrix to bind with sulfur species.

Strong Sulfur Binding with Conducting Magnéli-Phase Ti_4O_7 ...

Sulfur not only enhances the binding force of iron and carbon atoms, but also forms sulfides which distribute at grain boundaries, hindering the diffusion and precipitation of carbon. Especially for ductile iron, many research results show that sulfur is a strong hindrance to graphite spheroidization. Excessive sulphur may also lead to hot cracks ...

What are the effects of sulfur, manganese, phosphorus ...

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Sulfur (S) can regulate the mobility of cadmium (Cd) in soil and reduce Cd uptake by rice. However, the mechanism of how S affects soil properties and then regulates Cd mobility in rice growth through multiple factors is unclear. Diffusive gradients in thin films (DGT) and other in situ detection techniques, were innovatively used in this study.

Inhibition effect of sulfur on Cd activity in soil-rice ...

Sulfuring methods had no effect on binding. Dehydration resulted in less conversion of the sulfur dioxide to the sulfate. An oxygen scavenger added to the packaged dried apricots reduced both the rate of sulfur dioxide conversion to sulfate and the total sulfur dioxide loss, resulting in the product remaining lighter in color for a longer time.

FACTORS AFFECTING SULFUR DIOXIDE BINDING IN DRIED APPLES ...

The effects of sulfur-containing compounds and gemcitabine on

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the binding of cisplatin to plasma proteins and DNA determined by inductively coupled plasma mass spectrometry and high performance liquid chromatography-inductively coupled plasma mass spectrometry. Brouwers EE(1), Huitema AD, Schellens JH, Beijnen JH.

The effects of sulfur-containing compounds and gemcitabine ...

@article{osti_1394069, title = {Sulfur K-Edge XAS Studies of the Effect of DNA Binding on the [Fe 4 S 4] Site in EndoIII and MutY}, author = {Ha, Yang and Arnold, Anna R. and Nuñez, Nicole N. and Bartels, Phillip L. and Zhou, Andy and David, Sheila S. and Barton, Jacqueline K. and Hedman, Britt and Hodgson, Keith O. and Solomon, Edward I.}, abstractNote = {S K-edge X-ray absorption ...

Sulfur K-Edge XAS Studies of the Effect of DNA Binding on ...

Sulfur is an active item. 1 Effects 2 In-game Footage 3 Trivia 4 Bugs 5 Gallery Grants Brimstone for the current room. This item originated from the Binding of Isaac: Community Remixmod. Brimstone is an archaic name for Sulfur.

Sulfur - The Official Binding of Isaac: Antinatal Wiki

Bound sulfur dioxide refers to the formation of addition compounds between the bisulfite ion and other juice/wine components, such as aldehydes, anthocyanins and sugars. The quantity of SO₂ fixed, and the rate of binding, is a pH-dependent reaction: the lower the pH, the slower the addition.

SULFUR D (SO₂)

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The sulfur atom of phosphorothioated DNA (PT-DNA) is

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coordinated by a surface cavity in the conserved sulfur-binding domain (SBD) of type IV restriction enzymes. However, some SBDs cannot recognize the sulfur atom in some sequence contexts.

DNA backbone interactions impact the sequence specificity ...

The shuttle effect of lithium polysulfides (LiPS) leads to fast capacity loss in lithium-sulfur batteries, which hinders the practical applications and makes the discovery of shuttle effect-suppressive sulfur host materials highly significant. Here, we proposed a machine learning (ML) method to rapidly and accurately predict the binding energies ...

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