

Crystallographic Studies on Endothelial Nitric Oxide Synthase Inhibitors

Biochemistry

40, 5399-5406

DOI: 10.1021/bi002658v

Citation Report

#	ARTICLE	IF	CITATIONS
1	Crystal Structure of Nitric Oxide Synthase Bound to Nitro Indazole Reveals a Novel Inactivation Mechanism. <i>Biochemistry</i> , 2001, 40, 13448-13455.	2.5	78
2	Nitric Oxide (NO) Traffic in Endothelial NO Synthase. <i>Journal of Biological Chemistry</i> , 2002, 277, 7581-7586.	3.4	13
3	A Conserved Tryptophan 457 Modulates the Kinetics and Extent of N-Hydroxy-L-Arginine Oxidation by Inducible Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2002, 277, 12830-12837.	3.4	31
4	EPR and ENDOR Characterization of Intermediates in the Cryoreduced Oxy-Nitric Oxide Synthase Heme Domain with Bound L-Arginine or NG-Hydroxyarginine. <i>Biochemistry</i> , 2002, 41, 10375-10381.	2.5	116
5	The Novel Binding Mode of N-Alkyl-N-hydroxyguanidine to Neuronal Nitric Oxide Synthase Provides Mechanistic Insights into NO Biosynthesis. <i>Biochemistry</i> , 2002, 41, 13868-13875.	2.5	122
6	29 ⁺ Bioinorganic chemistry. <i>Annual Reports on the Progress of Chemistry Section A</i> , 2002, 98, 593-614.	0.8	3
7	Cryocrystallography of metalloprotein reaction intermediates. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 202-207.	6.1	19
8	Photo-Control of nitric oxide synthase activity using a caged isoform specific inhibitor. <i>Bioorganic and Medicinal Chemistry</i> , 2002, 10, 1919-1927.	3.0	52
9	CO binding to the isolated oxygenase domain of neuronal nitric oxide synthase: effects of inhibitors and mutations at the substrate-binding site. <i>Journal of Inorganic Biochemistry</i> , 2003, 94, 343-347.	3.5	2
10	Crystal structures of ferrous horse heart myoglobin complexed with nitric oxide and nitrosoethane. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 53, 182-192.	2.6	45
11	Role of the Interdomain Linker Probed by Kinetics of CO Ligation to an Endothelial Nitric Oxide Synthase Mutant Lacking the Calmodulin Binding Peptide (Residues 503-517 in Bovine). <i>Biochemistry</i> , 2003, 42, 6500-6506.	2.5	16
12	High-Resolution Crystal Structures and Spectroscopy of Native and Compound I Cytochrome c Peroxidase. <i>Biochemistry</i> , 2003, 42, 5600-5608.	2.5	140
13	Crystal structures of cyanide complexes of P450cam and the oxygenase domain of inducible nitric oxide synthase: structural models of the short-lived oxygen complexes. <i>Archives of Biochemistry and Biophysics</i> , 2003, 409, 25-31.	3.0	59
14	Structural Characterization and Kinetics of Nitric-oxide Synthase Inhibition by Novel N5-(Iminoalkyl)- and N5-(Iminoalkenyl)-ornithines. <i>Journal of Biological Chemistry</i> , 2003, 278, 46789-46797.	3.4	33
15	Structural Basis for the Specificity of the Nitric-oxide Synthase Inhibitors W1400 and N ⁵ -Propyl-L-Arg for the Inducible and Neuronal Isoforms. <i>Journal of Biological Chemistry</i> , 2003, 278, 45818-45825.	3.4	66
16	The bioinorganic chemistry of iron in oxygenases and supramolecular assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3569-3574.	7.1	312
17	Single-turnover of Nitric-oxide Synthase in the Presence of 4-Amino-tetrahydrobiopterin. <i>Journal of Biological Chemistry</i> , 2003, 278, 48602-48610.	3.4	58
18	Three Different Oxygen-induced Radical Species in Endothelial Nitric-oxide Synthase Oxygenase Domain under Regulation by L-Arginine and Tetrahydrobiopterin. <i>Journal of Biological Chemistry</i> , 2004, 279, 32243-32251.	3.4	61

#	ARTICLE	IF	CITATIONS
19	Heme Distortion Modulated by Ligand-Protein Interactions in Inducible Nitric-oxide Synthase. Journal of Biological Chemistry, 2004, 279, 26489-26499.	3.4	66
20	Identification of Caveolin-1-interacting Sites in Neuronal Nitric-oxide Synthase. Journal of Biological Chemistry, 2004, 279, 8827-8836.	3.4	77
21	Structural basis for dipeptide amide isoform-selective inhibition of neuronal nitric oxide synthase. Nature Structural and Molecular Biology, 2004, 11, 54-59.	8.2	75
22	Analysis of the kinetics of CO binding to neuronal nitric oxide synthase by flash photolysis: dual effects of substrates, inhibitors, and tetrahydrobiopterin. Journal of Inorganic Biochemistry, 2004, 98, 1210-1216.	3.5	7
23	Inhibitory effects of l-arginine derivatives on endothelium-dependent vasorelaxing response to acetylcholine of the rat aorta. European Journal of Medicinal Chemistry, 2004, 39, 611-617.	5.5	3
24	Electron transfer between the heme bound oxygen and the tetrahydrobiopterin cofactor of nitric oxide synthase: a DFT study. Chemical Physics Letters, 2004, 392, 439-443.	2.6	7
25	Potent and Selective Conformationally Restricted Neuronal Nitric Oxide Synthase Inhibitors. Journal of Medicinal Chemistry, 2004, 47, 703-710.	6.4	29
26	Tetrahydrobiopterin Binding to Aromatic Amino Acid Hydroxylases. Ligand Recognition and Specificity. Journal of Medicinal Chemistry, 2004, 47, 5962-5971.	6.4	18
27	Enzymes of the L-Arginine to Nitric Oxide Pathway. Journal of Nutrition, 2004, 134, 2748S-2751S.	2.9	162
28	Intermediates in P450 catalysis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 793-806.	3.4	33
29	Structure?function studies on nitric oxide synthases. Journal of Inorganic Biochemistry, 2005, 99, 293-305.	3.5	252
30	Ligand?protein interactions in nitric oxide synthase. Journal of Inorganic Biochemistry, 2005, 99, 306-323.	3.5	98
31	NO binding to naphthalene dioxygenase. Journal of Biological Inorganic Chemistry, 2005, 10, 483-489.	2.6	17
32	Prediction of binding modes for ligands in the cytochromes P450 and other heme-containing proteins. Proteins: Structure, Function and Bioinformatics, 2005, 58, 836-844.	2.6	92
33	Selective Neuronal Nitric Oxide Synthase Inhibitors. Current Topics in Medicinal Chemistry, 2005, 5, 603-624.	2.1	60
35	Cytochrome P450s in Plants. , 2005, , 553-583.		19
36	Thermodynamic and Kinetic Analysis of the Nitrosyl, Carbonyl, and Dioxy Heme Complexes of Neuronal Nitric-oxide Synthase. Journal of Biological Chemistry, 2005, 280, 965-973.	3.4	26
37	STRUCTURAL AND FUNCTIONAL DIVERSITY IN HEME MONOOXYGENASES. Drug Metabolism and Disposition, 2005, 33, 10-18.	3.3	49

#	ARTICLE	IF	CITATIONS
38	Mechanism of Inactivation of Inducible Nitric Oxide Synthase by Amidines. Irreversible Enzyme Inactivation without Inactivator Modification. Journal of the American Chemical Society, 2005, 127, 858-868.	13.7	47
39	Models and Mechanisms of Cytochrome P450 Action. , 2005, , 1-43.		77
40	The role of tetrahydrobiopterin in catalysis by nitric oxide synthase. Chemical Communications, 2006, , 3525.	4.1	9
41	Nitrosyl-Heme Structures of Bacillus subtilis Nitric Oxide Synthase Have Implications for Understanding Substrate Oxidation,. Biochemistry, 2006, 45, 2537-2544.	2.5	61
42	Dynamics of NO rebinding to the heme domain of NO synthase-like proteins from bacterial pathogens. Nitric Oxide - Biology and Chemistry, 2006, 15, 312-327.	2.7	14
43	Reactivity of the heme-dioxygen complex of the inducible nitric oxide synthase in the presence of alternative substrates. FEBS Journal, 2006, 273, 180-191.	4.7	10
44	High-valent iron in chemical and biological oxidations. Journal of Inorganic Biochemistry, 2006, 100, 434-447.	3.5	565
45	Structural studies of constitutive nitric oxide synthases with diatomic ligands bound. Journal of Biological Inorganic Chemistry, 2006, 11, 753-768.	2.6	54
46	Selective Inhibitors of Inducible Nitric Oxide Synthase: Potential Agents for the Treatment of Inflammatory Diseases?. Current Topics in Medicinal Chemistry, 2006, 6, 77-92.	2.1	102
47	Structure and Reactivity of a Thermostable Prokaryotic Nitric-oxide Synthase That Forms a Long-lived Oxy-Heme Complex. Journal of Biological Chemistry, 2006, 281, 9623-9632.	3.4	41
48	Pharmacologic Manipulation of Nitric Oxide Signaling: Targeting NOS Dimerization and Protein-Protein Interactions. Current Topics in Medicinal Chemistry, 2007, 7, 97-114.	2.1	54
49	Structures of P450 Proteins and Their Molecular Phylogeny. , 2007, , 57-96.		9
50	Substrate- and Isoform-Specific Dioxygen Complexes of Nitric Oxide Synthase. Journal of the American Chemical Society, 2007, 129, 6943-6951.	13.7	48
51	Insights into ligand selectivity in nitric oxide synthase isoforms: A molecular dynamics study. Journal of Molecular Graphics and Modelling, 2007, 26, 457-470.	2.4	5
52	Revisiting Heme Mechanisms. A Perspective on the Mechanisms of Nitric Oxide Synthase (NOS), Heme Oxygenase (HO), and Cytochrome P450s (CYP450s). Biochemistry, 2008, 47, 2231-2243.	2.5	105
53	Statistical Analysis of Interface Similarity in Crystals of Homologous Proteins. Journal of Molecular Biology, 2008, 381, 487-507.	4.2	102
54	Stabilization and Characterization of a Heme-Oxy Reaction Intermediate in Inducible Nitric-oxide Synthase. Journal of Biological Chemistry, 2008, 283, 33498-33507.	3.4	46
55	Endogenous nitric oxide regulates the recovery of the radiation-resistant bacterium <i>Deinococcus radiodurans</i> from exposure to UV light. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18183-18188.	7.1	61

#	ARTICLE	IF	CITATIONS
56	Synthesis, Biological Evaluation, and Docking Studies of N-Substituted Acetamidines as Selective Inhibitors of Inducible Nitric Oxide Synthase. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 1481-1485.	6.4	31
57	Design of Selective Neuronal Nitric Oxide Synthase Inhibitors for the Prevention and Treatment of Neurodegenerative Diseases. <i>Accounts of Chemical Research</i> , 2009, 42, 439-451.	15.6	118
58	EPR and ENDOR Characterization of the Reactive Intermediates in the Generation of NO by Cryoreduced Oxy-Nitric Oxide Synthase from <i>Geobacillus stearothermophilus</i> . <i>Journal of the American Chemical Society</i> , 2009, 131, 14493-14507.	13.7	60
59	Developing Dual and Specific Inhibitors of Dimethylarginine Dimethylaminohydrolase-1 and Nitric Oxide Synthase: Toward a Targeted Polypharmacology To Control Nitric Oxide. <i>Biochemistry</i> , 2009, 48, 8624-8635.	2.5	32
60	First Half-Reaction Mechanism of Nitric Oxide Synthase: The Role of Proton and Oxygen Coupled Electron Transfer in the Reaction by Quantum Mechanics/Molecular Mechanics. <i>Journal of Physical Chemistry B</i> , 2009, 113, 336-346.	2.6	40
61	63 The Role of Heme-Nitrosyls in the Biosynthesis, Transport, Sensing, and Detoxification of Nitric Oxide in Biological Systems: Enzymes and Model Complexes. <i>Handbook of Porphyrin Science</i> , 2011, , 1-247.	0.8	22
62	Selective Inhibition of iNOS by Benzyl- and Dibenzyl Derivatives of <i>N</i> -(3-aminobenzyl)acetamide. <i>ChemMedChem</i> , 2011, 6, 1203-1206.	3.2	21
63	The molecular mechanism of mammalian NO-synthases: A story of electrons and protons. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 127-141.	3.5	70
64	Kinetics of CO recombination to the heme in <i>Geobacillus stearothermophilus</i> nitric oxide synthase. <i>Polyhedron</i> , 2013, 58, 134-138.	2.2	1
65	Calmodulin-induced structural changes in endothelial nitric oxide synthase. <i>FEBS Letters</i> , 2013, 587, 297-301.	2.8	31
66	Endothelial Nitric Oxide Synthase in Dorsal Root Ganglia during Chronic Inflammatory Nociception. <i>Cells Tissues Organs</i> , 2013, 197, 159-168.	2.3	12
67	Insights into the structural determinants for selective inhibition of nitric oxide synthase isoforms. <i>Journal of Molecular Modeling</i> , 2013, 19, 1537-1551.	1.8	14
68	Holoenzyme structures of endothelial nitric oxide synthase – An allosteric role for calmodulin in pivoting the FMN domain for electron transfer. <i>Journal of Structural Biology</i> , 2014, 188, 46-54.	2.8	32
69	Probing the Hydrogen Bonding of the Ferrous-NO Heme Center of nNOS by Pulsed Electron Paramagnetic Resonance. <i>Journal of Physical Chemistry A</i> , 2015, 119, 6641-6649.	2.5	6
70	Mechanistic Studies of Inactivation of Inducible Nitric Oxide Synthase by Amidines. <i>Biochemistry</i> , 2015, 54, 2530-2538.	2.5	9
71	Nitric oxide synthase and structure-based inhibitor design. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 63, 68-77.	2.7	38
72	Ligand-Protein Interactions in Mammalian Nitric Oxide Synthase. , 2008, , 465-497.		4
73	Nitric oxide synthases domain structure and alignment in enzyme function and control. <i>Frontiers in Bioscience - Landmark</i> , 2003, 8, d193-209.	3.0	109

#	ARTICLE	IF	CITATIONS
74	Electron Transport, Oxidative Phosphorylation, and Hydroxylation. , 2001, , 1013-1086.		0
76	The Biologically Relevant Coordination Chemistry of Iron and Nitric Oxide: Electronic Structure and Reactivity. Chemical Reviews, 2021, 121, 14682-14905.	47.7	109
77	Redox and spectroscopic properties of mammalian nitrite reductase-like hemoproteins. Journal of Inorganic Biochemistry, 2022, 237, 111982.	3.5	4
78	Nitric oxide delivery and heme-assisted S-nitrosation by the bedbug nitrophorin. Journal of Inorganic Biochemistry, 2023, 246, 112263.	3.5	0