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Title: Biomimetic redox reactions of the Cu(II) μ -thiolate complex

Issue Date: 2015-03-11

Biomimetic Redox Reactions of the Cu^{II} μ -Thiolate Complex

PROEFSCHRIFT

ter verkrijging van
de graad van Doctor aan de Universiteit Leiden,
op gezag van Rector Magnificus Prof. mr. C. J. J. M. Stolker,
volgens besluit van het College voor Promoties
te verdedigen op woensdag 11 maart 2015
klokke 15.00 uur

door

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geboren te Hoorn in 1986

Samenstelling Promotiecommissie

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This work has been financially supported by the National Graduate School Combination NRSC-Catalysis, a joint activity of the graduate schools NIOK, HRSMC and EPL.

Printed by Ridderprint BV
Cover design by Menno Heijna

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List of Abbreviations

3,5-DTBC	3,5-di- <i>tert</i> -butylcatechol
3,5-DTBQ	3,5-di- <i>tert</i> -butyl- <i>o</i> -benzoquinone
a.u.	arbitrary units
Ac	acetyl
atm	atmosphere (1 atm = 101 325 Pa)
ATP	adenosine triphosphate
Bu	butyl
CcO	cytochrome c oxidase
Cys	cysteine
d	doublet
DCM	dichloromethane
DFT	density functional theory
DIPEA	N,N-diisopropylethylamine
ESI	electrospray ionization
Glu	glutamic acid
His	histidine
hr	hour
IR	infrared
<i>J</i>	coupling constant
LMCT	ligand-to-metal charge transfer
m	multiplet (NMR); medium (IR)
min	minutes
Me	methyl
Met	methionine
MLCT	metal-to-ligand charge transfer
NMR	nuclear magnetic resonance
MS	mass spectrometry
<i>o</i>	ortho
OTf	trifluoridomethanesulfonate
<i>p</i>	para
Ph	phenyl
Py	2-pyridyl
ppm	parts per million
RT	room temperature
s	singlet (NMR); strong (IR)
t	triplet
THF	tetrahydrofuran
TOF	turnover frequency
TPA	tris(2-pyridylmethyl)amine
Ts	4-toluenesulfonyl
Tyr	tyrosine
UV	ultra-violet
vs	very strong
w	weak

