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

PROEFSCHRIFT

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door

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geboren te Hoorn in 1986

Samenstelling Promotiecommissie

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List of Abbreviations

3,5-DTBC	3,5-di-*tert*-butylcatechol
3,5-DTBQ	3,5-di-*tert*-butyl-*o*-benzoquinone
a.u.	arbitrary units
Ac	acetyl
atm	atmosphere (1 atm = 101 325 Pa)
ATP	adenosine triphosphate
Bu	butyl
C*c*O	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
J	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
o	ortho
OTf	trifluoridomethanesulfonate
p	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