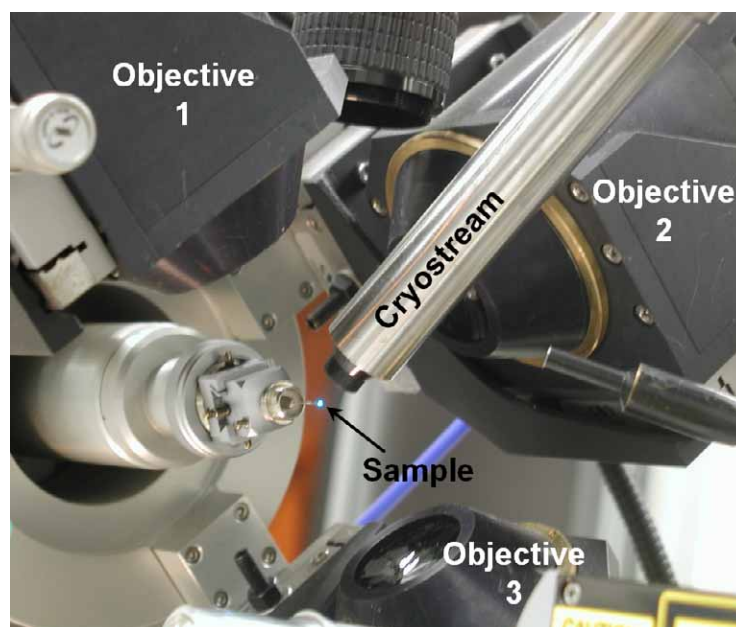


Cryophotolysis of a caged oxygen compound for use in low temperature biological studies

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SUPPLEMENTARY INFORMATION



10 **Fig. S1** Photograph of the experimental set-up used in cryophotolysis experiments at the Cryobench laboratory. A sample (glowing spot) is held in a microloop mounted on a goniometer situated at the middle of three objectives and controlled in temperature by a nitrogen cryostream

Table S1 Crystal data and refinement details

Chemical formula	C ₄₂ H ₄₂ Co ₂ N ₁₁ O _{14.5}
Formula weight	1050.73
Temperature (K)	150
Wavelength (Å)	0.71073
Crystal system	Triclinic
Space group	$P\bar{1}$
<i>a</i> (Å)	11.9774(2)
<i>b</i> (Å)	13.4851(3)
<i>c</i> (Å)	14.5529(3)
α (°)	81.9962(8)
β (°)	71.1326(8)
γ (°)	88.4819(11)
Cell volume (Å ³)	2202.14(8)
<i>Z</i>	2
Calculated density (Mg/m ³)	1.585
Absorption coefficient (mm ⁻¹)	0.837
<i>F</i> ₀₀₀	1082
Crystal size (mm)	0.18 x 0.22 x 0.32
Description of crystal	Black block
Absorption correction	Semi-empirical from equivalent reflections
Transmission coefficients (min,max)	0.77, 0.86
θ range for data collection (°)	$5.0 \leq \theta \leq 27.5$
Index ranges	$-14 \leq h \leq 15, -17 \leq k \leq 17, 0 \leq l \leq 18$
Reflections measured	21797
Unique reflections	9758
<i>R</i> _{int}	0.028
Observed reflections ($I > 3\sigma(I)$)	6939
Refinement method	Full-matrix least-squares on <i>F</i>
Parameters refined	618
Weighting scheme	Chebyshev 3-term polynomial
Goodness of fit	1.1213
<i>R</i>	0.0432
w <i>R</i>	0.0522
Residual electron density (min,max) (eÅ ⁻³)	-0.65, 1.11