Table 1. Collected amino acid rate constants for chemical reaction with and physical quenching of singlet oxygen

Amino acid	Photophysically generated ¹ O ₂		¹ O ₂ generated by * photosensitization	
	k _A	$k_A + k_O$	k _A	$k_{\Lambda} + k_{O}$
His	10	10	0.7	$k_A + k_Q$ 5
Trp	3	5.1	0.4	4
Met	1.6	1.7	0.5	3
Tyr	0.8	_	-	
Ala	0.2	0.13		

Photophysically generated singlet oxygen: all rate constants in units of M^{-1} s⁻¹ × $10^{-7} \pm 30\%$ at pD 8.4 and 20° .

^{*} Data of Nilsson et al. (1972) methylene blue photosensitization in H₂O/CH₃OH 1:1, pH unstated.