

### Kinetic parameters of flavin reductase

Substrate/effector	Parameter	Value	Conditions	Reference
NADPH	$K_M$	0.97±0.13 $\mu\text{M}$	100 mM K phosphate buffer pH 7.5, 25°C	(Cunningham, Dunne et al. 2000)
	$K_d$	15.8 $\mu\text{M}$		(Cunningham, Dunne et al. 2000)
	$K_d^*$	0.55 $\mu\text{M}$	This $K_d^*$ refers to the FMN-E*-NADPH complex	(Cunningham, Dunne et al. 2000)
FMN	$K_M$	52.8±3.9 $\mu\text{M}$		(Cunningham, Dunne et al. 2000)
		25 $\mu\text{M}$		(Mentioned in Hultquist, Mack et al. 1994)
	$k_{cat}$	0.099 $\text{s}^{-1}$		(Cunningham, Dunne et al. 2000)
Riboflavin	$K_M$	53.2±12.6 $\mu\text{M}$		(Cunningham, Dunne et al. 2000)
	$k_{cat}$	0.107 $\text{s}^{-1}$		(Cunningham, Dunne et al. 2000)
FAD	$K_M$	125±31.4 $\mu\text{M}$		(Cunningham, Dunne et al. 2000)
	$k_{cat}$	0.088 $\text{s}^{-1}$		(Cunningham, Dunne et al. 2000)
Pyrrolquinoline quinone	$K_M$	2 $\mu\text{M}$		(Mentioned in Hultquist, Mack et al. 1994)
NADP <sup>+</sup>	$K_I$	4.89 $\mu\text{M}$		(Cunningham, Dunne et al. 2000)
Protohemin	$K_d$	7 nM	Acts as inhibitor (Xu, Quandt et al. 1992)	(Mentioned in Hultquist, Mack et al. 1994)
Saturated and unsaturated fatty acids	$K_I$	6-52 $\mu\text{M}$		(Mentioned in Hultquist, Mack et al. 1994)