

	Oxaloacetate				Pyruvate			
	k_{cat} (sec ⁻¹)	K_M (μM)	K_i (mM)	k_{cat}/K_M (sec ⁻¹ M ⁻¹)	k_{cat} (sec ⁻¹)	K_M (μM)	K_i (mM)	k_{cat}/K_M (sec ⁻¹ M ⁻¹)
AncMDH2-59Mut	2.8 ± 0.2	1 ± 0.5	0.58 ± 0.18	2.9 ± 1.4 ×10 ⁶	0.12 ± 0.02	2000 ± 1000	-	6.1 ± 2.4 ×10 ¹
AncMDH2-R102K	48 ± 5	570 ± 120	3.7 ± 0.8	8.5 ± 1.1 ×10 ⁴	0.047 ± 0.013	16000 ± 10000	-	2.9 ± 1.1 ×10 ⁰
AncMDH2-R102K-59Mut	20 ± 1	560 ± 78	15 ± 2.4	3.5 ± 0.4 ×10 ⁴	0.066 ± 0.003	2300 ± 530	-	2.8 ± 0.6 ×10 ¹
AncMDH2-INS	52 ± 4.8	27 ± 5	0.23 ± 0.08	2.0 ± 0.4 ×10 ⁶	35 ± 2	950 ± 120	4.2 ± 0.5	3.9 ± 0.2 ×10 ⁴
AncMDH2-INS-59Mut	26 ± 1.3	48 ± 5	0.048 ± 0.005	5.4 ± 0.6 ×10 ⁵	12 ± 1	22 ± 4.2	6.7 ± 1.3	5.7 ± 1.1 ×10 ⁵
AncMDH2-R102K-INS	0.25 ± 0.03	350 ± 110	9.1 ± 3.4	7.3 ± 1.4 ×10 ²	27 ± 1	130 ± 10	3.4 ± 0.2	2.1 ± 0.2 ×10 ⁵