

Table 3

Catalytic efficiency of TGR as compared with the corresponding value of typical TRs and GRs

Enzyme	k_{cat}/K_m ($\text{M}^{-1} \text{min}^{-1}$) ^a	Reference
Thioredoxin reductase		
<i>P. falciparum</i>	30×10^7	[26]
Rat liver	120×10^7	[12]
Human placenta	13.3×10^7	[13]
Glutathione reductase		
<i>Spirulina maxima</i>	9.4×10^7	[36]
<i>Saccharomyces cerevisiae</i>	19.7×10^7	[35]
Mouse liver	8.1×10^7	[40]
Human red blood cell	19.4×10^7	[37]
Thioredoxin-glutathione reductase		
<i>T. crassiceps</i>	6.8×10^7 (PfTrx)	This work
	2.0×10^7 (GSSG)	
Mouse testis	11.3×10^7 (Trx)	[20]
	1.06×10^7 (GSSG)	

^aIn those cases where the catalytic efficiency is not directly available, it was calculated from the corresponding values given in the original article.