

Table 5. Enzymes involved in *E. coli* glycolysis pathway. The hydrodynamic radius (R_h) was calculated as a function of the number of amino acids in the enzyme or its molecular weight (MW). The diffusion coefficient (D_c) is inversely proportional to the R_h and the viscosity of the medium (6.92×10^{-4} Pa.s)

Enzyme Commission	Coding gene	MW (kDa)	R_h (nm)	D_c ($m^2 \cdot s^{-1}$), water, 37°C	Concentration in the cell (μM) [42]
2.7.1.2	glk	35 ^a	1.80	1.82×10^{-19}	N/A
5.3.1.9	pgi	125 ^a	6.44	5.10×10^{-20}	N/A
2.7.1.11	pfkB	71 ^a	3.66	8.98×10^{-20}	11.2
3.1.3.11	glpX	80 ^a	4.12	7.97×10^{-20}	N/A
3.1.3.11	fbp	150 ^a	7.73	4.25×10^{-20}	N/A
4.1.2.13	fbaB	305 ^b	15.70	2.09×10^{-20}	N/A
4.1.2.13	fbaA	78 ^b	4.03	8.14×10^{-20}	N/A
5.3.1.1	tpiA	54 ^b	2.78	1.18×10^{-19}	N/A
1.2.1.12	gapA	142 ^b	7.32	4.48×10^{-20}	65
2.7.2.3	pgk	41 ^b	2.12	1.55×10^{-19}	38
5.4.2.11	gpmA	49 ^a	2.52	1.3×10^{-19}	N/A
5.4.2.12	gpmM	61 ^a	3.14	1.04×10^{-19}	116
4.2.1.11	eno	91 ^b	4.70	6.98×10^{-20}	146
2.7.1.40	pykF	203 ^b	10.45	3.14×10^{-20}	N/A
2.7.1.40	pykA	190 ^a	9.79	3.35×10^{-20}	N/A
2.7.9.2	ppsA	168 ^c	4.33	7.59×10^{-20}	N/A
1.1.1.28	ldhA	37 ^b	1.88	1.74×10^{-19}	N/A
2.3.1.54	tdcE	85 ^a	4.38	7.50×10^{-20}	N/A
2.3.1.54	pflB	170 ^c	4.38	7.50×10^{-20}	N/A
2.3.1.8	pta	484 ^a	24.93	1.32×10^{-20}	N/A
2.3.1.8	eutD	36 ^b	1.86	1.77×10^{-19}	N/A
2.7.2.1	purT	84 ^c	4.32	7.61×10^{-20}	N/A
2.7.2.1	ackA	87 ^b	4.46	7.36×10^{-20}	N/A
1.2.1.10	mhpF	54 ^a	2.76	1.19×10^{-19}	N/A
1.1.1.1	adhP	142 ^c	7.29	4.50×10^{-20}	N/A
1.1.1.1	adhE	3845 ^c	198.02	1.66×10^{-21}	N/A

Note. ^aFrom experimental values.

^bFrom values inferred from amino-acid sequence for the polypeptide and multiplied by number of subunits.

^cFrom experimental values of the polypeptide monomer and multiplied by subunit number.

