

Table of bionumbers relating to the nitrogen assimilation system

Property	Range	Refs
Km of GS and GS_A binding AT	1-6 uM	Ninfa – 2007 (SOM), Brenda
Adenylation and de-adenylation rates	1-10 [1/sec]	Ninfa – 2007 (SOM), Ninfa (GS revisited) – in vitro
Ratio of GS:PII:ATase:UTase concentrations	411:42:2.6:1	Review: chock 1990
Synthesis rate of glutamine by GS	20-40 [1/sec]	Brenda
size of a GS subunit	45x45x53 Å	Rhee 1989
Distance from top to bottom	103 Å	Eisenberg 1986
Outer diameter of the dodecamer	143Å	Eisenberg 1986
Number of GS subunits	12 units, arranged in 2 hexamers	
Glutamine levels	0.1-10 mM	Chock 1989
Alpha-ketoglutarate levels	0.1-0.9 mM	Senior 1975
Size of AT	?	
Size of AT-N440 (AT N-terminal: aa 1-440)	63x54x23 Å	Vasudevan, Structure, 2004