

Supplementary Table 1. Aggergation kinetics of the elongate peptides based on the ribosomal S1 protein of *T.thermophilus*.



Supplementary Table 2. Experimental results of studying the kinetics of coaggregation of samples of amyloidogenic peptides based on the ribosomal S1 protein and the whole S1 protein of *T. thermophilus*.





Su	pp	lementar	y Table 3	. Statistical	parameters	of res	ponse curves.
----	----	----------	-----------	---------------	------------	--------	---------------

Model	logLik	AIC	Res var		
	Kanai	mycin			
Log- logistic model	Log- logistic model				
with three	16.94	-25.88	0.01		
parameters					
Exponential model	10.46	14.02	0.01		
with two parameters	10.40	-14.95	0.01		
Model Michaelis-					
Menten with two	7.91	-9.82	0.02		
parameters					
	R2	231			
Log- logistic model	15.95	25.90	0.02		
with two parameters	15.75	-20.70	0.02		
Exponential model	15 74	-25.49	0.02		
with two parameters	15.74	-20.49	0.02		
Model Michaelis-					
Menten with two	14.71	-23.42	0.02		
parameters					
R23T					
Log- logistic model	4 70	-3.40	0.02		
with two parameters	4.70	-5.40	0.02		
Exponential model	4 35	2 60	0.03		
with two parameters	4.00	-2.07	0.05		
Model Michaelis-					
Menten with two	3.68	-1.35	0.03		
parameters					

Supplementary Table 4. Number of proteins in different experimental groups.

20 0 mkg/ml mkg/ml 50 mkg/ml 11 100 mkg/ml 6 20 9	Concentration R23I	Total protein detected	Unique proteins	Common proteins for cells in control and treated cells
176 22 53 2	0 μg/ml	386	100	-
69 14 6 15	20 µg/ml	232	11	20
3	50 μg/ml	201	2	9
	100 µg/ml	395	176	69

Supplementary Table 5. The distribution of proteins sensitive to the action of the R23I peptide.

		Number of proteins				
Group	Keywords	0	20	50	100	
	υμ <u>g</u> ,		µg/ml	µg/ml	µg/ml	
	Histidine biosynthesis	1	0	0	1	
Biosynthetic processes,	Ribosome biogenesis	2	0	0	0	
protein biosynthesis	Methionine biosynthesis	5	1	1	3	
	Isoleucine biosynthesis	2	0	0	1	

	S-adenosyl-L-methionine	1	0	0	1
	Threonine biosynthesis	4	1	1	2
	Aminoacyl-tRNA synthetase	20	7	7	19
	tRNA processing	1	0	1	1
	Aromatic amino acid biosynthesis	1	0	0	1
	Nuclease	1	0	0	2
Processes associated	DNA replication	1	0	0	2
with the conversion	Endonuclease	1	0	0	2
and metabolism of	Purine biosynthesis	3	1	1	3
nucleic acids	Purine salvage	1	0	0	0
	One-carbon metabolism	1	0	0	1
	Aminopeptidase	3	0	0	0
Processes associated	Aminotransferase	1	0	0	1
with the conversion of	Protease	16	5	5	11
polypeptide chains	Serine protease	7	1	2	3
	Hydrolase	26	9	8	31
	NADP	8	2	2	6
	Glyoxylate bypass	4	1	1	4
The processes	Phosphoprotein	3	1	2	5
associated with energy	Potassium	1	0	0	1
metabolism, and factors	Redox-active center	3	0	0	3
activity	Serine/threonine-protein kinase	1	0	0	0
activity	Magnesium	23	9	9	33
	Allosteric enzyme	6	1	1	4