Fig. 2　The composition of the molecule of HFZM on the molecule of

（nは変異道スオス位置数）の変異体候補を取り扱わ　　を行った。

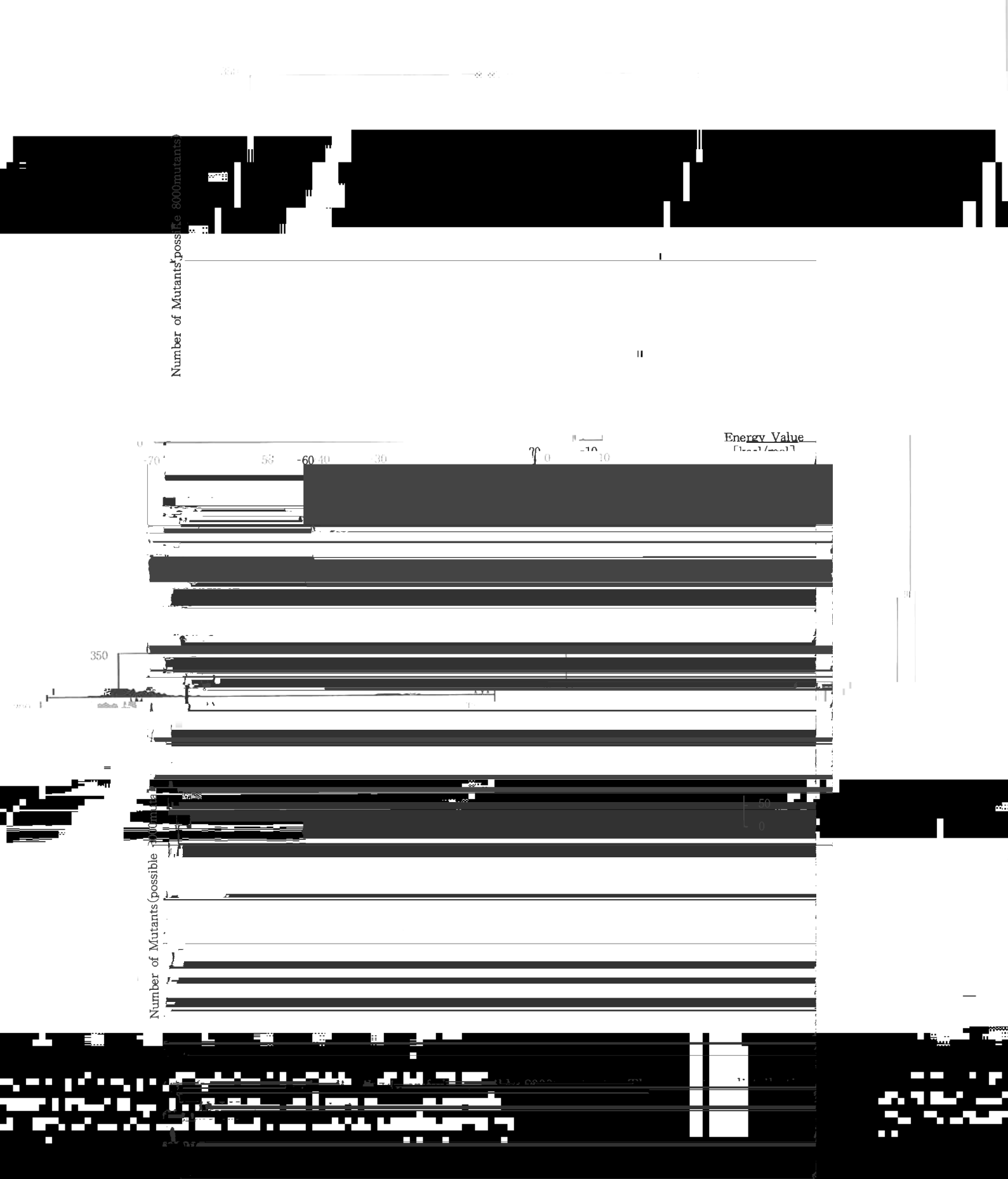
Ser54

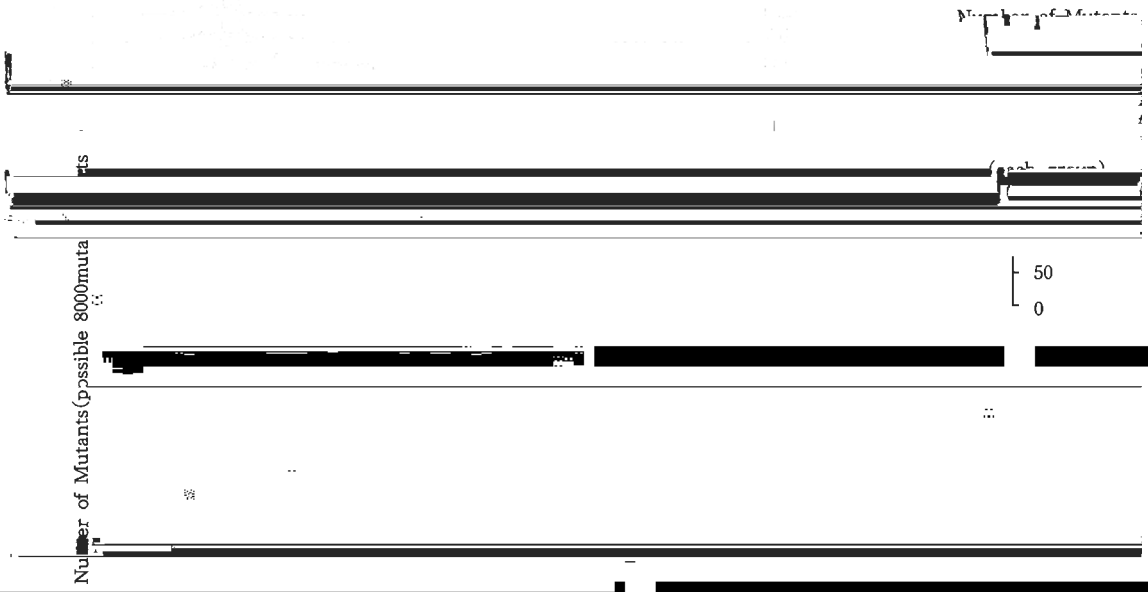

CDR-

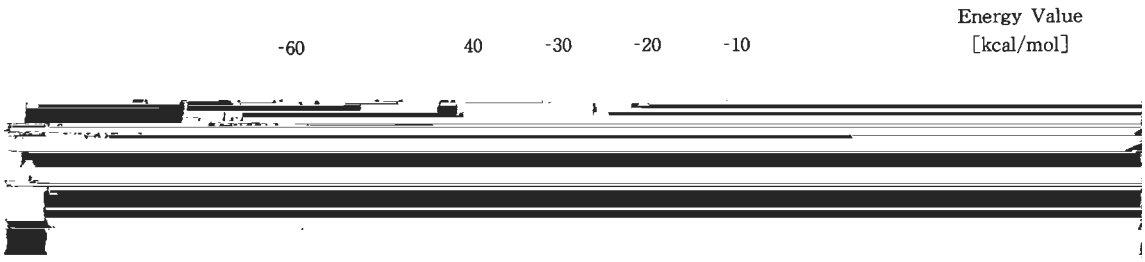
(Fig.6) 々様々な要素（項）に分解し、その和を用いてシミュ

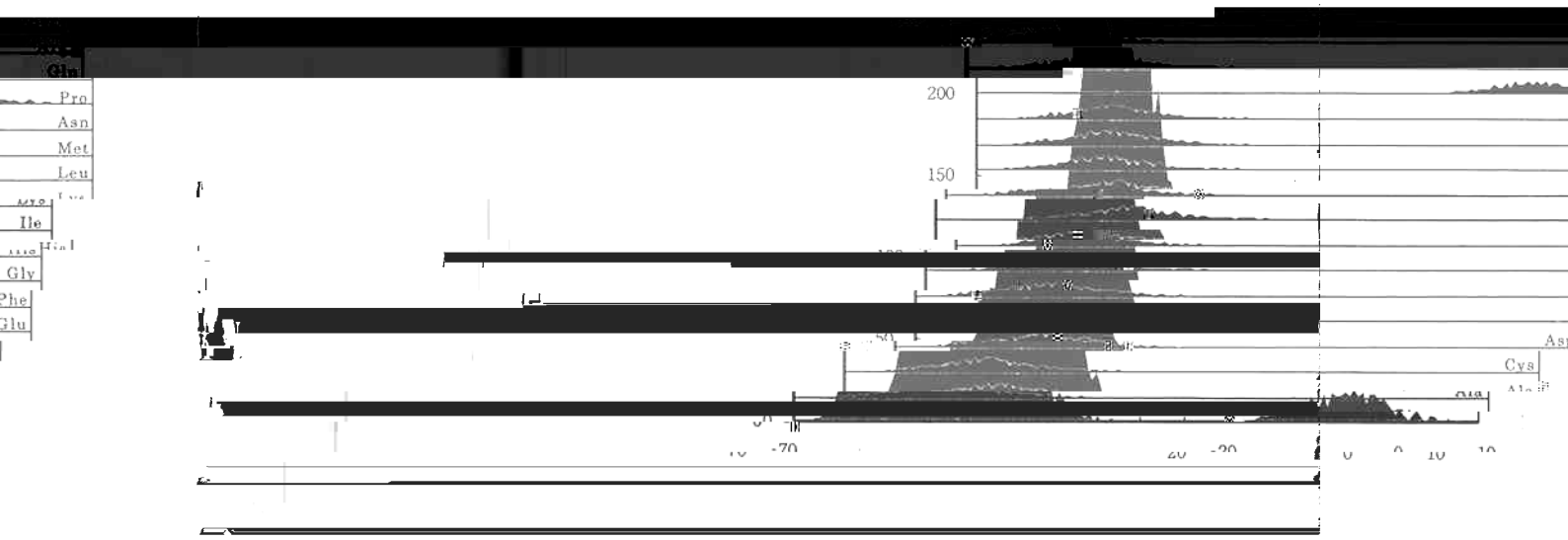
合体の安定性評価は前出の各変異体に特徴的な

[redacted]


Number of Mutants(possible 8000mutants)
Energy Value
-70
-60
-40
-30
0
-10
10
350
50
0
Number of Mutants(possible 8000mutants)







The black histograms on the lines are the distribution of the 400 (=20×20) [illegible]

V_H : 54

Amino Acid	statistical parameters [kcal/mol]		standard deviation
All mutants			
Gln	−59.56	−60.19	3.20
Lys	−58.18	−58.66	2.22
Trp	−56.63	−57.09	3.36

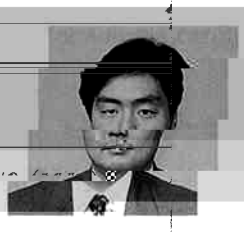
	kass	*kdiss*	*Ka*
	[$\times 10^{4}$ $M^{-1}s^{-1}$]	[$\times 10^{-3}$ s^{-1}]	[$\times 10^{7}$ M^{-1}]

mutant rank

EWR	3	N.D	N.D

EKR	1.2 ±0.1	−20.60
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
EKV	0.78±0.2	−3.83
[illegible]	[illegible]	[illegible]
KKR	N.D.	−6.57
[illegible]	[illegible]	[illegible]
EKE	0.24±0.1	−18.60
YSS	<0.01	11.00
[illegible]	[illegible]	[illegible]

6）



著　　者