Tag type	Tag name	Description
Exploration	Mode	define the execution mode, the
method		possible values are HEURIS-
		TIC,MONTECARLO,MEANFIELD
		and POSTPROCESS
	Trajectory_Length	the length of a Monte Carlo trajectory
Number of steps	Trajectory_Number	the number of Monte Carlo trajectories
	Cycle_Number	proteus gives a sequence at each cycle in
		the HEURISTIC mode
	Sequence_Loop_Number	the maximun number of iteration over
		the structure at each cycle. (only in the
		HEURISTIC mode)
Choice of the	Seq_Input_File	a input file with the starting values
starting se-		
quence/structure		
· ,	Rseed_Definition	The seed value for the random number
		generator (the generator sets the starting
		values if Seq_Input_File is not defined
Energy function	Optimization_Configuration	definition of the energy function
	Group_definition	group energies and group interaction en-
	_	ergies are the basic elements of the energy
		function
Restrictions on	Space_Constraints	restrict the possible states or force
sequence/rotamer		residues to have the same amino acid
space		
-	Surf_Ener_Factor	energy parameter
Model parameters	Dielectric_Constant	energy parameter
	Lambda_Parameter	parameter of the Mean Field method
	Initial_Weights	parameter of the Mean Field method
	Temperature	usefull for the Mean Field or Monte Carlo
		mode
	Random_Generator	The type of random number generator
		as defined in the GNU Scientific Library
	Rot_Proba	probability to have a rotamer change at
		each step
	Rot_Rot_Proba	probability to have a couple of rotamer
		change at each step
Monte Carlo	Mut_Proba	
controls	11140_11004	
	Mut_Mut_Proba	
	Mut_Mut_Proba	
	Mut_Mut_Proba Mut_Rot_Proba	
	Mut_Mut_Proba Mut_Rot_Proba	At each step the changes will be in the
	Mut_Mut_Proba Mut_Rot_Proba	At each step the changes will be in the same neighborhood. This tag is a parameter for the neighborhood definition. the directory of the input energy files
	Mut_Mut_Proba Mut_Rot_Proba Neighbor_Threshold	At each step the changes will be in the same neighborhood. This tag is a parameter for the neighborhood definition.
	Mut_Mut_Proba Mut_Rot_Proba Neighbor_Threshold Energy_Directory	At each step the changes will be in the same neighborhood. This tag is a parameter for the neighborhood definition. the directory of the input energy files
Input/Output	Mut_Mut_Proba Mut_Rot_Proba Neighbor_Threshold Energy_Directory	At each step the changes will be in the same neighborhood. This tag is a parameter for the neighborhood definition. the directory of the input energy files the fasta file name (POSTPROCESS)

Table 1 - Possible commands in the proteus command file 1