Table 3. Properties of wild-type SOD1 and mutant SOD1 proteins used in this study

SOD1 protein	In-gel SOD activity	MP modification	Folding
WT-myc	+	MP1	D/M
A4V-myc	+	MP1	D/M
G37R-myc	+	MP1	D/M
H46R-myc	-	MP1 MP2	M
H48Q-myc	-	MP1 MP2	M
H80R-myc	-	MP1 MP2	M
G85R-myc	-	MP1 MP2	M
D90A-myc	+	MP1	D/M
G93A-myc	+	MP1	D/M
D124V-myc	-	MP1 MP2	M
D125H-myc	-	MP1 MP2	M
E133Δ-myc	+	MP1	D/M
S134N-myc	-	MP1 MP2	M
WT	+	MP1	ND
G93A	+	MP1	ND

SOD activity as determined by an in-gel assay is indicated as + (comparable with wild-type SOD1) or – (diminished or absent). In MP modifications, SOD1 mobility shifts corresponding to the binding of 1 or 2 malPEG to Cys residues are indicated as MP_1 and MP_2, respectively. "Folding" refers to the presence of SOD1 dimers (D) and/or monomers (M) in denaturing (0.1% SDS), nonreducing PAGE. A4V SOD1 mutant shows an intermediate behavior, running essentially as a monomer that displays SOD activity. ND, not detectable with an anti-SOD1 antibody.