

[54] **METHOD AND AGENTS FOR INHIBITING PROTEIN AGING**

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[58] **Field of Search** 435/260; 514/634, 399, 514/561, 631; 564/230

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[57] **ABSTRACT**

The present invention relates to compositions and methods for inhibiting protein aging. Accordingly, a composition is disclosed which comprises an agent or compound capable of inhibiting the formation of advanced glycosylation end products of target proteins by reacting with the carbonyl moiety of the early glycosylation product of such target proteins formed by their initial glycosylation. Suitable agents may contain an active nitrogen-containing group, such as a hydrazine group, and may further be at least partially derived from amino acids. Particular agents comprise aminoguanidine, α -hydrazinohistidine and lysine. The method comprises contacting the target protein with the composition. Both industrial and therapeutic applications for the invention are envisioned, as food spoilage and animal protein aging can be treated.

6 Claims, 5 Drawing Sheets