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(54) Title: INHIBITORS OF ALPHA-CRYSTALLIN AGGREGATION FOR THE TREATMENT FOR CATARACT

(57) Abstract: The invention provides inhibitors of cc-crystallin aggregation and methods of using cc-crystallin aggregation inhibitors to, e.g., treat or prevent cataracts in a subject having or at risk of developing cataracts. The invention further provides high throughput methods of screening compounds for modulation of protein thermal stability, the method comprising contacting a protein with each of a plurality of test compounds; and (b) measuring the melting transition (T_m) of the protein in the presence of each of the plurality of test compounds, wherein a compound that decreases or increases the apparent T_m by at least 2 standard deviations is identified as a pharmacological protein chaperone.



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