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(54) **Title:** SUBSTITUTED (E)-N'-(1-PHENYLETHYLIDENE) BENZOHYDRAZIDE ANALOGS AS HISTONE DEMETHYLASE INHIBITORS

(57) **Abstract:** In one aspect, the invention relates to substituted (E)-N'-(1-phenylethylidene)benzohydrazide analogs, derivatives thereof, and related compounds, which are useful as inhibitors of lysine-specific histone demethylase, including LSD1; synthetic methods for making the compounds; pharmaceutical compositions comprising the compounds; and methods of using the compounds and compositions to treat disorders associated with dysfunction of the LSD1. This abstract is intended as a scanning tool for purposes of searching in the particular art and is not intended to be limiting of the present invention.

