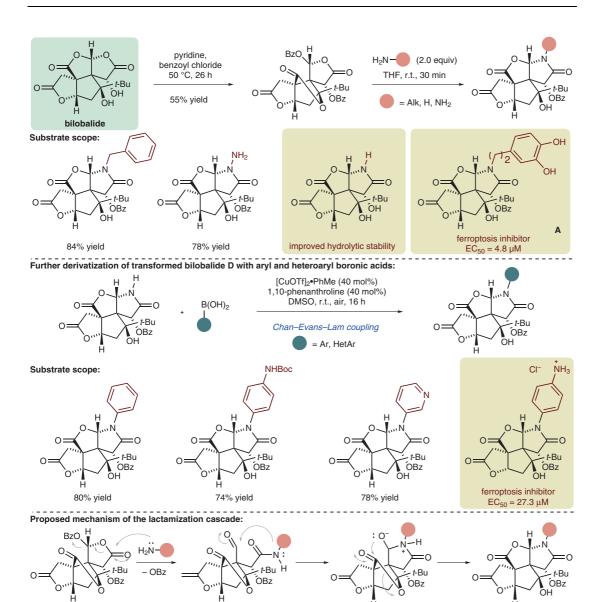
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Lactone-to-Lactam Editing Alters the Pharmacology of Bilobalide

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## Late-Stage O-to-N Molecular Editing of Bilobalide **Alters Pharmacology**



**Significance:** Exploiting known skeletal rearrangements of GABA antagonist bilobalide, the authors developed an unprecedented N-to-O transformation to readily access lactam-type derivatives. Comment: Bilobalide was reacted with amine nucleophiles to access lactam-type derivatives; these derivatives were modified further with copper-promoted coupling. Interestingly, the modified A demonstrated no GABA antagonism and atypically

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**Innovative Drug** Discovery and Development

## Key words

bilobalide molecular editing O-to-N lactone-to-lactam ferroptosis GPX4



potent ferroptosis inhibition.