

# STEREOSELECTIVE COVALENT DESTABILIZING DEGRADATION OF THE ONCOGENIC TRANSCRIPTION FACTOR MYC

Tech ID: 33918 / UC Case 2025-090-0

## PATENT STATUS

Patent Pending

## BRIEF DESCRIPTION

The oncogenic transcription factor MYC is implicated in a vast number of human cancers, yet it has proven exceptionally difficult to target using conventional small-molecule inhibitors due to its intrinsically disordered nature. This innovation, developed by UC Berkeley researchers, addresses the urgent need for a novel therapeutic strategy by introducing a class of compounds and pharmaceutical compositions that achieve the stereoselective covalent destabilizing degradation of the MYC protein.

## SUGGESTED USES

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To treat cancers driven by the MYC oncogene.

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As a pharmaceutical composition for degrading the oncogenic transcription factor MYC.

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For the development of small-molecule therapeutics that target historically "undruggable" proteins.

## ADVANTAGES

»

Achieves rapid and potent degradation of the MYC protein, offering a more complete therapeutic effect than mere inhibition.

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Uses a covalent, stereoselective mechanism for degradation, providing high specificity and potentially lower off-target effects compared to non-covalent inhibitors.

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Represents a novel therapeutic strategy to directly target MYC in cancers where traditional small-molecule inhibition has failed.

»

Compounds are suitable for formulation into pharmaceutical compositions for clinical use.

## RELATED MATERIALS

## CONTACT

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## INVENTORS

» Nomura, Daniel K.

## OTHER INFORMATION

### CATEGORIZED AS

» **Medical**

» Disease: Cancer

» New Chemical Entities,  
Drug Leads

» Therapeutics

### RELATED CASES

2025-090-0

## ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- ▶ [14-3-3 Covalent Molecular Glue Stabilizers](#)
- ▶ [Covalent Degradator of the Oncogenic Transcription Factor CTNNB1](#)
- ▶ [Dcaf16-Based Covalent Handle For The Rational Design Of Monovalent Degradators](#)



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