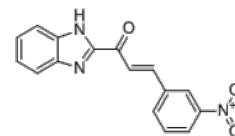


**Product Name** : UCI-LC0023  
**Cat. No.** : PC-49216  
**CAS No.** : 1357615-72-5  
**Molecular Formula** : C<sub>16</sub>H<sub>11</sub>N<sub>3</sub>O<sub>3</sub>  
**Molecular Weight** : 293.282  
**Target** : MDM2-p53  
**Solubility** : 10 mM in DMSO



## Biological Activity

UCI-LC0023 is a small molecule that restores **mutant p53** activity by targeting the cryptic L1/S3 pocket of p53, directly binds to mutant p53 and restores wild-type-like conformation of mutant p53R175H.

Treatment of TOV112D cells with UCI-LC0023 increased the detection with wild-type specific antibodies and decreased the p53R175H mutant specific signal.

UCI-LC0023 restores DNA binding of p53 mutants (R175H, Y220C, R248W, R282W, R273H, G245S) in vitro and in vivo and induces p53 target gene expression.

UCI-LC0023 is sufficient to correct the DNA binding defect of p53R175H.

UCI-LC0023 induces restoration of site-specific DNA binding of the p53R175H mutant to the promoters of the p53-dependent genes p21 and PUMA in TOV112D cells as demonstrated by ChIP.

## References

Geetha Durairaj, et al. *Cell Chem Biol.* 2022 Aug 9;S2451-9456(22)00275-6.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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