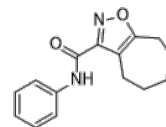


**Product Name** : XZA-1  
**Cat. No.** : PC-25921  
**CAS No.** : 1282141-20-1  
**Molecular Formula** : C<sub>15</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub>  
**Molecular Weight** : 256.31  
**Target** : E3 Ubiquitin Ligase  
**Solubility** : 10 mM in DMSO



CAS: 1282141-20-1

## Biological Activity

XZA-1 is a specific small-molecule activator of 3-hydroxyacyl-coenzyme A dehydrogenase (**HADH**), suppresses **CBX4** SUMO E3 ligase activity and disrupts CBX4-mediated **HIF-1 $\alpha$**  transcriptional activation.

XZA-1 activates HADH, a key enzyme in fatty acid  $\beta$ -oxidation, resulting in increased intracellular levels of acetoacetyl-CoA.

XZA-1 promotes acetoacetylation of CBX4 at lysine 106, thereby reducing its SUMO E3 ligase activity.

XZA-1 demonstrated antitumor effects by enhancing CBX4 K106 acetoacetylation in CBX4-overexpressing xenograft model.

## References

Li H, et al. *Cell Chem Biol.* 2025 Oct 16;32(10):1249-1259.e9.

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

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