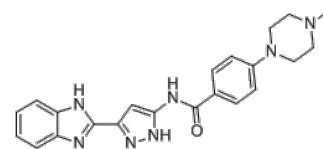


**Product Name** : FOXO1-IN-10  
**Cat. No.** : PC-49398  
**CAS No.** : 2451093-95-9  
**Molecular Formula** : C<sub>22</sub>H<sub>23</sub>N<sub>7</sub>O  
**Molecular Weight** : 401.474  
**Target** : Foxo1  
**Solubility** : 10 mM in DMSO



### Biological Activity

FOXO1-IN-10 (FOXO1 inhibitor 10) is a highly selective small molecule inhibitor of transcription factor **FOXO1** with IC<sub>50</sub> of 0.21 and 0.03 uM for hFOXO1 and mFOXO1, respectively.

FOXO1-IN-10 induces a robust cytotoxic response of mantle cell lymphoma (MCL) cells in vitro and suppresses MCL progression in vivo.

FOXO1-IN-10 is highly selective for FOXO1 both in vitro and in vivo and fails to elicit any effect in genetic models of FOXO1 ablation.

Chronic administration of FOXO1-IN-10 improved insulin sensitivity and glucose control in db/db mice without causing weight gain.

Chronic FOXO1-IN-10 treatment combined with FGF21 led to synergistic glucose lowering in lean, streptozotocin-induced diabetic mice.

### References

Langlet F, et al. **Cell**. 2017 Nov 2;171(4):824-835.e18.

Ja-Young Jang, et al. **J Clin Invest**. 2022 Oct 25;e160767.

Yun-Kyoung Lee, et al. **Mol Metab**. 2021 Jul;49:101187.

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

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