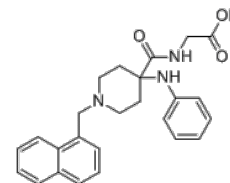


**Product Name** : VBIT-12  
**Cat. No.** : PC-38802  
**CAS No.** : 2089227-65-4  
**Molecular Formula** : C<sub>25</sub>H<sub>27</sub>N<sub>3</sub>O<sub>3</sub>  
**Molecular Weight** : 417.509  
**Target** : VDAC  
**Solubility** : 10 mM in DMSO



## Biological Activity

VBIT-12 is a selective inhibitor of the mitochondria gate-keeper protein, voltage-dependent-anion channel 1 (VDAC1), directly interacting with purified VDAC1 and reducing the channel conductance.

VBIT-12 treatment of cultured colon cells inhibited the DSS-induced VDAC1 overexpression, oligomerization, and apoptosis.

VBIT-12 suppressed weight loss, diarrhea, rectal bleeding, pro-inflammatory cytokine production, crypt and epithelial cell damage, and focal inflammation in DSS-treated mice

## References

Verma A, et al. Mol Ther. 2022 Feb 2;30(2):726-744.

Niu B, et al. Cell Biol Toxicol. 2021 Aug 17. doi: 10.1007/s10565-021-09624-x.

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

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