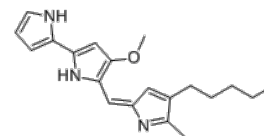


**Product Name** : Prodigiosin  
**Cat. No.** : PC-70223  
**CAS No.** : 82-89-3  
**Molecular Formula** : C<sub>20</sub>H<sub>25</sub>N<sub>3</sub>O  
**Molecular Weight** : 323.432  
**Target** : Wnt  
**Solubility** : 10 mM in DMSO



## Biological Activity

Prodigiosin is a natural red pigment produced by numerous bacterial species, has exhibited promising anticancer activity. Prodigiosin a potent inhibitor of **Wnt/ $\beta$ -catenin** pathway by targeting multiple sites of this pathway, including LRP6, Dishevelled (DVL), and GSK3 $\beta$ .

Prodigiosin decreases phosphorylation of LRP6, DVL2, and GSK3 $\beta$  and suppressed  $\beta$ -catenin-stimulated Wnt target gene expression, including expression of cyclin D1, in breast cancer cells.

Prodigiosin slows tumor progression in vivo; restores p53 and activates p73 via regulation of c-Jun in colorectal cancer stem cells.

## References

Wang Z, et al. *Proc Natl Acad Sci U S A*. 2016 Nov 15;113(46):13150-13155.

Prabhu VV, et al. *Cancer Res*. 2016 Apr 1;76(7):1989-99.

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

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