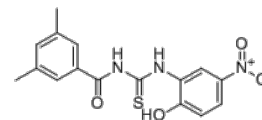


**Product Name** : DM-PIT-1  
**Cat. No.** : PC-62043  
**CAS No.** : 701947-53-7  
**Molecular Formula** : C<sub>16</sub>H<sub>15</sub>N<sub>3</sub>O<sub>4</sub>S  
**Molecular Weight** : 345.4  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

DM-PIT-1 is a specific **PIP3** antagonist that disrupts PIP3/Akt PH domain, PIP3/PDK1 PH domain, and PIP3/GRP1 PH domain with IC<sub>50</sub> of 27.1 uM, 80.5 uM, and 35.5 uM, respectively.

DM-PIT-1 suppresses the PI3K-PDK1-Akt pathway and triggers metabolic stress and apoptosis.

DM-PIT-1 inhibits in vivo tumor growth in BALB/c mice.

DM-PIT-1 is a dimethyl analog of PIT-1 with improved aqueous solubility.

## References

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Skidan I, et al. *Drug Deliv*. 2009 Jan;16(1):45-51.

Miao B, et al. *Oncogene*. 2012 Sep 27;31(39):4317-32.

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

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