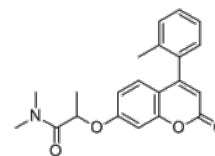


**Product Name** : IMT1  
**Cat. No.** : PC-72916  
**CAS No.** : 2304621-31-4  
**Molecular Formula** : C<sub>21</sub>H<sub>21</sub>NO<sub>4</sub>  
**Molecular Weight** : 351.402  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

IMT1 (LDC195943) is a first-in-class specific inhibitor of mitochondrial transcription that target the human **mitochondrial RNA polymerase (POLRMT)**.

IMT1 binds to an allosteric binding site near the active centre cleft of POLRMT.

IMT1 efficiently impairs mtDNA transcription in a reconstituted recombinant system and cause a dose-dependent inhibition of mtDNA expression and OXPHOS in cell lines.

IMT1 demonstrates anti-tumour effects against the growth of cancer cells and the persistence of therapy-resistant cancer stem cells.

## References

Bonekamp NA, et al. *Nature*. 2020 Dec;588(7839):712-716.

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

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