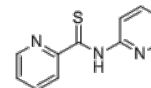


**Product Name** : NSC 185058  
**Cat. No.** : PC-60597  
**CAS No.** : 39122-38-8  
**Molecular Formula** : C<sub>11</sub>H<sub>9</sub>N<sub>3</sub>S  
**Molecular Weight** : 215.274  
**Target** : Autophagy-related Protein (Atg)  
**Solubility** : 10 mM in DMSO



## Biological Activity

NSC 185058 (NSC185058, NSC-185058, 2-Pyridinecarbothioamide) is a novel **ATG4B** antagonist that inhibits autophagy with IC<sub>50</sub> of 50 uM, with no effect on mTOR and PI3K activities.

NSC 185058 directly inhibits cellular ATG4B activity induced by starvation or rapamycin and suppresses the lipidation of LC3B and autophagosome formation in response to starvation, suppresses Saos-2 osteosarcoma growth in vivo.

NSC 185058 markedly slows tumor growth and provides a significant survival benefit in GBM xenografts combined with radiotherapy.

## References

Akin D, et al. *Autophagy*. 2014;10(11):2021-35.

Huang T, et al. *Cancer Cell*. 2017 Dec 11;32(6):840-855.e8.

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

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