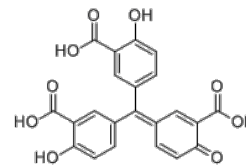


**Product Name** : Aurintricarboxylic acid  
**Cat. No.** : PC-62361  
**CAS No.** : 4431-00-9  
**Molecular Formula** : C<sub>22</sub>H<sub>14</sub>O<sub>9</sub>  
**Molecular Weight** : 422.34  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

NSC4056 (Aurintricarboxylic acid) is a potent, bioactive inhibitor of **cystathionine γ-lyase (CSE)** with IC<sub>50</sub> of 0.6 μM, also is a selective inhibitor of the **TWEAK-Fn14** signaling pathway.

NSC4056 (Aurintricarboxylic acid) selectively binds to Arg and Tyr residues of CSE active site and preferably inhibits the CSE activity in cells rather than cystathionine β-synthase (CBS), the other H<sub>2</sub>S-generating enzyme.

NSC4056 dose-dependently inhibits endogenous CSE activity and decreases the H<sub>2</sub>S content in Raw264.7 macrophages.

Aurintricarboxylic acid is an inhibitor of topoisomerase II and apoptosis.

Aurintricarboxylic acid is a selective inhibitor of the TWEAK-Fn14 signaling pathway.

Aurintricarboxylic acid also stimulates tyrosine phosphorylation processes including the Jak2/STAT5 pathway in NB2 lymphoma cells, ErbB4 in neuroblastoma cells, and MAP kinases, Shc proteins, phosphatidylinositide 3-kinase and phospholipase C<sub>γ</sub> in PC12 cells.

## References

Tan GS, et al. *ACS Chem Biol*. 2012 Feb 17;7(2):403-10.

Hallick RB, et al. *Nucleic Acids Res*. 1977 Sep;4(9):3055-64.

Roos A, et al. *Oncotarget*. 2017 Feb 14;8(7):12234-12246.

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

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