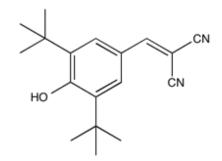


## Catalog # 10-1535 Tyrphostin 9

10537-47-0 3,5-Di-tert-butyl-4-hydroxybenzylidene-malononitrile Tyrphostin a9, Malonoben, AG-17, SF 6847, RG-50872 Lot # X105444



Inhibits PDGF receptor tyrosine kinase ( $IC_{50} = 1.2 \ \mu M$ )<sup>1</sup> and is a potent (10 nM) inhibitor of oxidative phosphorylation<sup>2</sup>. Inhibits cell growth by disrupting mitochondria<sup>3</sup>. Perturbs the golgi complex and blocks proliferation of vascular smooth muscle cells<sup>4</sup>.

- 1) Bilder et al. (1991), Tyrphostins inhibit PDGF-induced DNA synthesis and associated early events in smooth muscle cells; Am. J. Physiol., **260** C721
- 2) Terada et al. (1981), The interaction of highly active uncouplers with mitochondria; Biochim. Biophys. Acta, 639 225
- 3) Burger et al. (1995), Tyrphostin AG17, [3,5-Ditert-butyl-4-hydroxybenzylidene)-malononitrile], inhibits cell growth by disrupting mitochondria; Cancer Res., **55** 2794
- 4) Thyberg et al. (1998), tyrphostin A9 and wortmannin perturb the Golgi complex and block proliferation of vascular smooth muscle cells; Eur. J. Cell Biol., **76** 33

## PHYSICAL DATA

| Molecular Weight:      | 282.38   |
|------------------------|--|
| Molecular Formula:     | C <sub>18</sub> H <sub>22</sub> N <sub>2</sub> O   |
| Purity:                | 99% by TLC   |
|                        | NMR: (Conforms)  |
| Solubility:            | DMSO (up to 25 mg/ml), Ethanol (up to 20 mg/ml)  |
| Physical Description:  | Orange solid   |
| Storage and Stability: | Store as supplied desiccated at room temperture for up to 2 years from the date of purchase. |
|                        | Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.                      |

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