

# Tyrphostin A1

## Catalog No: tcsc3182



### Available Sizes

**Size:** 10mg

**Size:** 100mg



### Specifications

**CAS No:**

2826-26-8

**Formula:**

$C_{11}H_8N_2O$

**Pathway:**

Immunology/Inflammation

**Target:**

Interleukin Related

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 100$  mg/mL (542.92 mM)

**Alternative Names:**

Tyrphostin 1;AG9

**Observed Molecular Weight:**

184.19

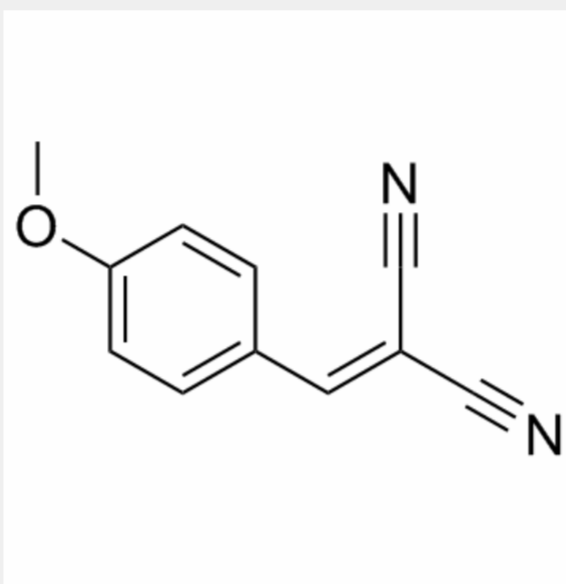
### Product Description

Tyrphostin A1(AG9) inhibits CD40L-stimulated IL-12 production in macrophage cultures and antigen-induced generation of Th1 cells.

IC50 value:

Target: IL-12 production inhibitor

Addition of increasing concentration of A1 resulted in a dose dependent decrease of IL-12 p40, with maximal inhibition (62.5%) occurring at a dose of 10  $\mu$ M. tyrphostin A1 blocks CD40L-induced translocation of NF- $\kappa$ B to the nucleus, and reduces the activation of IL-12 p40 gene. In vivo therapy with A1 leads to decrease in generation of myelin basic protein (MBP) specific encephalitogenic T cells. In addition, treatment of SJL/J mice with A1 results in attenuation of experimental allergic encephalomyelitis (EAE) [1]. Tyrphostin A1 is a much weaker inhibitor of TK than other tyrphostins (IC<sub>50</sub>>1250  $\mu$ M for epidermal growth factor receptor (EGFR) kinase), and therefore often used to differentiate TK-mediated effects of tyrphostins from other non-specific effects [2].



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