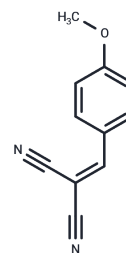


Tyrphostin A1

Chemical Properties

CAS No. :	2826-26-8
Formula:	C ₁₁ H ₈ N ₂ O
Molecular Weight:	184.19
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Tyrphostin A1 (Tyrphostin 1) is an inhibitor of EGFR tyrosine kinase .
Targets(IC50)	EGFR,Interleukin
In vitro	Tyrphostin A1 inhibits CD40L-stimulated IL-12 production in macrophage cultures and antigen-induced generation of Th1 cells.tyrphostin A1 blocks CD40L-induced translocation of NF-kappaB 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[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (542.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (17.92 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.4292 mL	27.1459 mL	54.2918 mL
5 mM	1.0858 mL	5.4292 mL	10.8584 mL
10 mM	0.5429 mL	2.7146 mL	5.4292 mL
50 mM	0.1086 mL	0.5429 mL	1.0858 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Du C , Bright JJ , Sriram S . Inhibition of CD40 signaling pathway by tyrphostin A1 reduces secretion of IL-12 in macrophage, Th1 cell development and experimental allergic encephalomyelitis in SJL/J mice[J]. Journal of Neuroimmunology, 2001, 114(1-2):69-79.

Ogura T , Imanishi S , Shibamoto T . Activation of Background Membrane Conductance by the Tyrosine Kinase Inhibitor Tyrphostin A23 and Its Inactive Analog Tyrphostin A1 in Guinea Pig Ventricular Myocytes.[J]. The Japanese Journal of Pharmacology, 2001, 87(3):235-239.

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