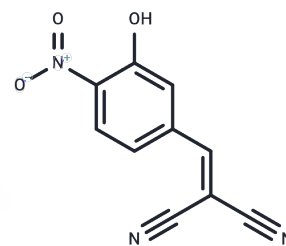


AG126

Chemical Properties

CAS No. : 118409-62-4
Formula: C₁₀H₅N₃O₃
Molecular Weight: 215.16
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	AG126 (Tyrphostin AG126) selectively inhibits the phosphorylation of ERK1 (p44) and ERK2 (p42) at 25-50 μ M. It blocks the production of TNF- α in vitro ² and in vivo, attenuating signaling through NF- κ B, the induced expression of COX-2 and iNOS, and the inflammatory response in diverse animal models. AG-126 weakly inhibits epidermal GFRK (IC ₅₀ : 450 μ M) and platelet-derived GFRK (IC ₅₀ > 100 μ M).
Targets(IC ₅₀)	ERK,COX

Solubility Information

Solubility	DMSO: 100 mg/mL (464.77 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (18.59 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	4.6477 mL	23.2385 mL	46.477 mL
5 mM	0.9295 mL	4.6477 mL	9.2954 mL
10 mM	0.4648 mL	2.3239 mL	4.6477 mL
50 mM	0.093 mL	0.4648 mL	0.9295 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

Novogrodsky, A., Vanichkin, A., Patya, M., et al. Prevention of lipopolysaccharide-induced lethal toxicity by tyrosine kinase inhibitors. *Science* 264(5163), 1319-1322 (1994).

Hanisch, U.K., Prinz, M., Angstwurm, K., et al. The protein tyrosine kinase inhibitor AG126 prevents the massive microglial cytokine induction by pneumococcal cell walls. *European Journal of Immunology* 31, 2104-2115 (2001).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481