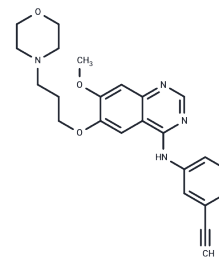


NRC-2694

Chemical Properties

CAS No. : 936446-61-6
 Formula: C₂₄H₂₆N₄O₃
 Molecular Weight: 418.49
 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	NRC-2694 is an antagonist of the epidermal growth factor receptor (EGFR). It has anti-cancer and anti-proliferative properties.
Targets(IC50)	EGFR
In vitro	NRC-2694 (80 ng) induce comparable inhibition of EGFR expression.
In vivo	NRC-2694 (10 mg/kg) regresses the tumor in mice. The maximum tolerated dose of NRC-2694 in male and female mice is 2000 mg/kg (p.o.), in toxicity studies .

Solubility Information

Solubility	DMSO: 250 mg/mL (597.39 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (11.95 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	2.3895 mL	11.9477 mL	23.8954 mL
5 mM	0.4779 mL	2.3895 mL	4.7791 mL
10 mM	0.239 mL	1.1948 mL	2.3895 mL
50 mM	0.0478 mL	0.239 mL	0.4779 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

Ramanadham Jyothi Prasad, et al. 6-7, dialkoxy quinazoline derivatives useful for treatment of cancer related disorders. US 8143250 B2

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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