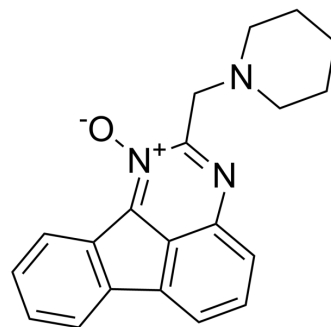


NSC194598

Cat. No.:	HY-156135		
CAS No.:	5358-76-9		
Molecular Formula:	C ₂₀ H ₁₉ N ₃ O		
Molecular Weight:	317.38		
Target:	RET		
Pathway:	Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 8.3 mg/mL (26.15 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.1508 mL	15.7540 mL	31.5080 mL
	5 mM	0.6302 mL	3.1508 mL	6.3016 mL
	10 mM	0.3151 mL	1.5754 mL	3.1508 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

NSC194598 is a p53 DNA-binding inhibitor with IC₅₀ value of 180 nM and 2-40 μM for in vitro and in vivo, respectively. NSC194598 interferes with transcriptional activation of mutated RET gene in human medullary thyroid carcinoma TT cells. NSC194598 can be used for acute toxicity to normal tissues by radiation and chemotherapy research^{[1][2]}.

REFERENCES

[1]. Li Q, et al. Inhibition of p53 DNA binding by a small molecule protects mice from radiation toxicity. *Oncogene*. 2020 Jul;39(29):5187-5200.

[2]. Shin YJ, et al. Involvement of G-quadruplex structures in regulation of human RET gene expression by small molecules in human medullary thyroid carcinoma TT cells. *Oncogene*. 2015 Mar 5;34(10):1292-9.

Caution: Product has not been fully validated for medical applications. For research use only.

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