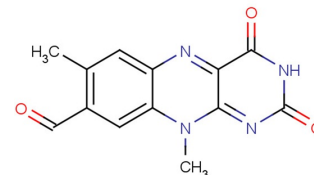


Ro 08-2750

## Chemical Properties

CAS No.:	37854-59-4
Formula:	C <sub>13</sub> H <sub>10</sub> N <sub>4</sub> O <sub>3</sub>
Molecular Weight:	270.24
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Ro 08-2750 is a non-peptide and reversible nerve growth factor inhibitor which binds to NGF (IC <sub>50</sub> : ~ 1 μM). Ro 08-2750 is a selective MSI RNA-binding activity inhibitor (IC <sub>50</sub> : 2.7 μM). Ro 08-2750 inhibits NGF binding to p75NTR selectively over TRKA.
Targets(IC <sub>50</sub> )	NGF: ~1 μM
In vitro	Ro 08-2750 inhibits the survival of human AML lines and patient cells. Ro 08-2750 suppresses MSI2 RNA-binding and alters the MSI2 gene signature. Ro 08-2750 binds to the NGF dimer thereby probably inducing a change in its conformation such that NGF cannot bind to p75NTR anymore. Ro 08-2750 (5-10 μM; 8 hours) increases differentiation and apoptosis in myeloid leukemia cells. Ro 08-2750 (10 nM) fully rescues cells from undergoing NGF-induced SK-N-MC 103 cell death [2][3].
In vivo	In a myeloid leukemia model in vivo, Ro 08-2750 (13.75 mg/kg; i.p.) suppresses leukemogenesis [3].

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
------------	---

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7 mL	18.502 mL	37.004 mL
5 mM	0.74 mL	3.7 mL	7.401 mL
10 mM	0.37 mL	1.85 mL	3.7 mL
50 mM	0.074 mL	0.37 mL	0.74 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

1. Arkin MR, et al. Small-molecule inhibitors of protein-protein interactions: progressing towards the dream. Nat Rev Drug Discov. 2004 Apr;3(4):301-17.
2. Niederhauser O, et al. NGF ligand alters NGF signaling via p75(NTR) and trkA. J Neurosci Res. 2000 Aug 1;61(3):263-72.
3. Minuesa G, et al. Small-molecule targeting of MUSASHI RNA-binding activity in acute myeloid leukemia. Nat Commun. 2019 Jun 19;10(1):2691.

Inhibitors · Natural Compounds · Compound Libraries

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

Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481