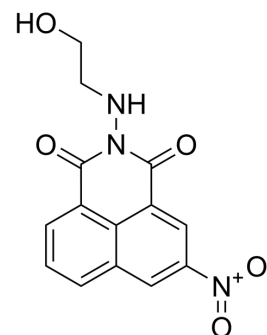


## ALE-0540

<b>Cat. No.:</b>	HY-124637		
<b>CAS No.:</b>	234779-34-1		
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>11</sub> N <sub>3</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	301.25		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (414.94 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mM	3.3195 mL	16.5975 mL
5 mM	0.6639 mL	3.3195 mL	6.6390 mL		
10 mM	0.3320 mL	1.6598 mL	3.3195 mL		

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

### BIOLOGICAL ACTIVITY

#### Description

ALE-0540, a nonpeptidic small molecule, is a nerve growth factor receptor antagonist. ALE-0540 inhibits the binding of NGF to tyrosine kinase (Trk) A or both p75 and TrkA with IC<sub>50</sub> values of 5.88 μM and 3.72 μM, respectively. ALE-0540 can be used to examine mechanisms leading to the development of agents for the treatment of pain<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 5.88 μM (the binding of NGF to tyrosine kinase (Trk) A and TrkA); 3.72 μM (the binding of NGF to p75 and TrkA)<sup>[1]</sup>.

### REFERENCES

[1]. Owolabi JB, et al. Characterization of antiallodynic actions of ALE-0540, a novel nerve growth factor receptor antagonist, in the rat. J Pharmacol Exp Ther. 1999 Jun;289(3):1271-6.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA