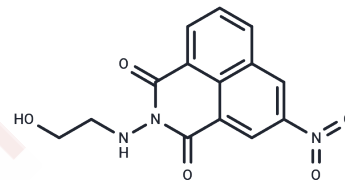


ALE-0540

Chemical Properties

CAS No. : 234779-34-1
 Formula: C₁₄H₁₁N₃O₅
 Molecular Weight: 301.25
 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	ALE-0540 is a nonpeptidic heterocyclic molecule that inhibits the binding of NGF to p75 and TrkA, as well as signal transduction and biological responses mediated by TrkA receptors.
Targets(IC50)	Others,Trk receptor
In vivo	Either i.p. or i.th. administration of ALE-0540 in rats produced antiallodynia in the L5/L6 ligation model of neuropathic pain. The calculated A50 values (and 95% confidence intervals) for ALE-0540 administered i.p. and i.th. were 38 (17.5-83) mg/kg and 34.6 (17.3-69.4) mg, respectively. ALE-0540 given i.th., at doses of 30 and 60 mg, also blocked tactile allodynia in the thermal sensitization model.

Solubility Information

Solubility	DMSO: 50 mg/mL (165.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3195 mL	16.5975 mL	33.195 mL
5 mM	0.6639 mL	3.3195 mL	6.639 mL
10 mM	0.332 mL	1.6598 mL	3.3195 mL
50 mM	0.0664 mL	0.332 mL	0.6639 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

Owolabi JB, Rizkalla G, Tehim A, Ross GM, Riopelle RJ, Kamboj R, Ossipov M, Bian D, Wegert S, Porreca F, Lee DK. 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. PMID: 10336516.

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