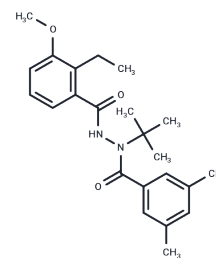


RG-102240

Chemical Properties

CAS No. : 162326-49-0
 Formula: C₂₃H₃₀N₂O₃
 Molecular Weight: 382.5
 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	RG-102240 is a ligand for the insect ecdysone receptor (EcR). Its IC ₅₀ values against wild-type G:CfE (DEF) and A110P mutant are 85 nM and 13 nM, respectively. It activates reporter gene expression of both wild-type CfEcR and the A110P mutant.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	DMSO: 80 mg/mL (209.15 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	2.6144 mL	13.0719 mL	26.1438 mL
5 mM	0.5229 mL	2.6144 mL	5.2288 mL
10 mM	0.2614 mL	1.3072 mL	2.6144 mL
50 mM	0.0523 mL	0.2614 mL	0.5229 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

Kumar MB, et al., A single point mutation in ecdysone receptor leads to increased ligand specificity: implications for gene switch applications. Proc Natl Acad Sci U S A. 2002 Nov 12;99(23):14710-5.

Panguluri SK, Li B, Hormann RE, Palli SR. Effect of ecdysone receptor gene switch ligands on endogenous gene expression in 293 cells. FEBS J. 2007 Nov;274(21):5669-89. Epub 2007 Oct 8. PubMed PMID: 17922837.

Kumar MB, Fujimoto T, Potter DW, Deng Q, Palli SR. A single point mutation in ecdysone receptor leads to increased ligand specificity: implications for gene switch applications. Proc Natl Acad Sci U S A. 2002 Nov 12;99(23):14710-5. Epub 2002 Oct 31. PubMed PMID: 12411578; PubMed Central PMCID: PMC137484.

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