Data Sheet (Cat.No.T6694)



Tamibarotene

Chemical Properties

CAS No.: 94497-51-5

Formula: C22H25NO3

Molecular Weight: 351.44

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Tamibarotene (Amnolake) is an orally active, synthetic retinoid, developed to overcome all-trans retinoic acid (ATRA) resistance, with potential antineoplastic activity.			
Targets(IC50)	Apoptosis,Retinoid Receptor,Autophagy			
In vitro	Tamibarotene treatment significantly reduces the levels of insoluble amyloid beta (A β) in the mice's brain, particularly A β (42), without notably affecting the levels of soluble A β .			
In vivo				
Cell Research	The CellTiter Aqueous Non-Radioactive Cell Proliferation Assay Kit is used to assess cell growth. Briefly, 10,000 cells per well are seeded in a 96-well plate and cultured in RPMI containing 2% charcoal-stripped FBS and indicated retinoid concentrations for 72 hours At the end of the treatment period, the MTS reagent is added, cells are incubated an additional 2-4 hours, and absorbance is measured at 490 nanometers.			

Solubility Information

Solubility	DMSO: 60 mg/mL (170.73 mM),Sonication is recommended.	
	1.1eq. NaOH: 35.1 mg/mL (99.87 mM), Sonication is recommended.	
	(< 1 mg/ml refers to the product slightly soluble or insoluble)	

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8454 mL	14.2272 mL	28.4544 mL
5 mM	0.5691 mL	2.8454 mL	5.6909 mL
10 mM	0.2845 mL	1.4227 mL	2.8454 mL
50 mM	0.0569 mL	0.2845 mL	0.5691 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.

Reference

Sanda T, et al. Leukemia, 2005, 19(6), 901-909.

Li X, Jiang S, Wang B, et al.Integrated multi-omics analysis and machine learning developed diagnostic markers and prognostic model based on Efferocytosis-associated signatures for septic cardiomyopathy.Clinical Immunology.2024: 110301.

Uruno A, et al. J Leukoc Biol, 2011, 90(2), 235-247.

Nakazato T, et al. Cancer Sci, 2008, 99(11), 2286-2294.

Kawahara K, et al. Biol Pharm Bull, 2009, 32(7), 1307-1309.

Wang X, et al. Retinoic acid receptor alpha drives cell cycle progression and is associated with increased sensitivity to retinoids in T-cell lymphoma. Oncotarget. 2017 Apr 18;8(16):26245-26255.

 $\textbf{Inhibitor} \cdot \textbf{Natural Compounds} \cdot \textbf{Compound Libraries} \cdot \textbf{Recombinant Proteins}$

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481

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