

Omilancor

Chemical Properties

CAS No. : 1912399-75-7

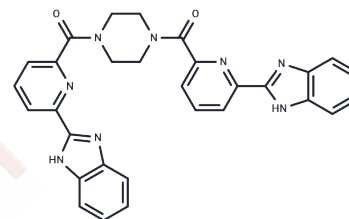
Formula: C₃₀H₂₄N₈O₂

Molecular Weight: 528.56

Store at low temperature

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	Omilancor (BT-11) is a direct LANCL2 (Lanthionine Synthetase Cyclase-Like 2) activator with oral activity for the treatment of Crohn's Disease (CD), Inflammatory Bowel Disease (IBD) and Ulcerative Colitis (UC).
Targets(IC50)	Others
In vitro	Omilancor was tested on mouse splenocytes (WT and LANCL2 ^{-/-}) to evaluate cAMP production after treatment (dose-dependent). Omilancor increased intracellular cAMP in WT cells but had no effect in LANCL2-deficient cells, indicating target-specific activation [1].
In vivo	In DSS-induced colitis mouse models, Omilancor was administered orally (8 mg/kg/day; 7 days). Omilancor significantly reduced disease activity index and gut inflammation, lowered TNF- α , increased IL-10, and restored LANCL2 expression in colonic tissue. Efficacy was abolished in LANCL2 ^{-/-} mice, confirming target specificity[1].

Solubility Information

Solubility	DMSO: 8 mg/mL (15.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (1.89 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8919 mL	9.4597 mL	18.9193 mL
5 mM	0.3784 mL	1.8919 mL	3.7839 mL
10 mM	0.1892 mL	0.946 mL	1.8919 mL
50 mM	0.0378 mL	0.1892 mL	0.3784 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

Carbo A, Gandour RD, Hontecillas R, Philipson N, Uren A, Bassaganya-Riera J. An N,N-Bis (benzimidazolylpicolinoyl)piperazine (BT-11): A Novel Lanthionine Synthetase C-Like 2-Based Therapeutic for Inflammatory Bowel Disease. *J Med Chem.* 2016 Nov 23;59(22):10113-10126.

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