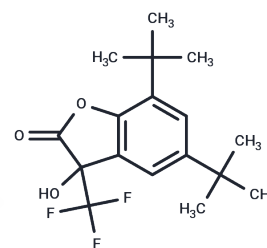


rac-BHFF

Chemical Properties

CAS No. : 123557-91-5
 Formula: C17H21F3O3
 Molecular Weight: 330.34
 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	rac-BHFF ((R,S)-BHFF) is potent and selective GABA B receptor positive allosteric modulator that increases the potency and efficacy of GABA (> 15-fold and > 149% respectively). It exhibits anxiolytic activity in vivo and is orally active.
Targets(IC50)	GABA Receptor

Solubility Information

Solubility	DMSO: 50 mg/mL (151.36 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: 2 mg/mL (6.05 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	3.0272 mL	15.1359 mL	30.2718 mL
5 mM	0.6054 mL	3.0272 mL	6.0544 mL
10 mM	0.3027 mL	1.5136 mL	3.0272 mL
50 mM	0.0605 mL	0.3027 mL	0.6054 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

Krishnamurthy S, et al. Crystal structure of (1R,4R)-tert-butyl 3-oxo-2-oxa-5-aza-bicyclo-[2.2.2]octane-5-carboxylate, *Acta Crystallogr E Crystallogr Commun.* 2015 Jul 1; 71(Pt 7): o449-o450.

Koek W, et al. Discriminative Stimulus Effects of the GABAB Receptor-Positive Modulator rac-BHFF: Comparison with GABAB Receptor Agonists and Drugs of Abuse, *J Pharmacol Exp Ther.* 2013 Mar; 344(3): 553-560.

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