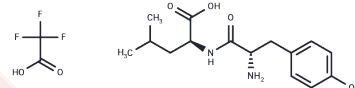


Tyrosylleucine TFA

Chemical Properties

CAS No. :	66852-01-5
Formula:	C17H23F3N2O6
Molecular Weight:	408.374
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Tyrosylleucine (Tyr-Leu, YL) TFA is a dipeptide compound with potent antidepressant-like activity and demonstrates effective modulation of depressive symptoms when administered orally.
In vitro	Tyrosylleucine (Tyr-Leu, YL) elevates the number of c-Fos expressing cells, indicative of neuronal activity, within the hippocampal dentate gyrus[1].
In vivo	Tyrosylleucine (Tyr-Leu, YL) demonstrates strong anxiolytic-like effects in a dose-dependent manner (0.1-1 mg/kg, i.p.)[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4488 mL	12.2438 mL	24.4876 mL
5 mM	0.4898 mL	2.4488 mL	4.8975 mL
10 mM	0.2449 mL	1.2244 mL	2.4488 mL
50 mM	0.049 mL	0.2449 mL	0.4898 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

Takafumi Mizushige, et al. Dipeptide tyrosyl-leucine exhibits antidepressant-like activity in mice. *Sci Rep.* 2020 Feb 10;10(1):2257.

Norimasa Kanegawa, et al. Dipeptide Tyr-Leu (YL) exhibits anxiolytic-like activity after oral administration via activating serotonin 5-HT1A, dopamine D1 and GABAA receptors in mice. *FEBS Lett.* 2010 Feb 5;584(3):599-604.

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