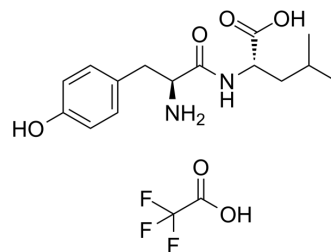


Tyrosylleucine TFA

Cat. No.:	HY-122794A
CAS No.:	66852-01-5
Molecular Formula:	C ₁₇ H ₂₃ F ₃ N ₂ O ₆
Molecular Weight:	408.37
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (244.88 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.12 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.12 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.12 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Tyrosylleucine (Tyr-Leu, YL) TFA, an orally active dipeptide, exhibits a potent antidepressant-like activity ^[1] .
In Vitro	Tyrosylleucine (Tyr-Leu, YL) increases the amount of cells expressing c-Fos, a marker for neuronal activity, in the dentate gyrus of the hippocampus ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Tyrosylleucine (Tyr-Leu, YL) dose-dependently exhibits potent anxiolytic-like activity (0.1-1 mg/kg, i.p.) ^[2] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Takafumi Mizushige, et al. Dipeptide tyrosyl-leucine exhibits antidepressant-like activity in mice. *Sci Rep.* 2020 Feb 10;10(1):2257.
- [2]. 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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Caution: Product has not been fully validated for medical applications. For research use only.

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