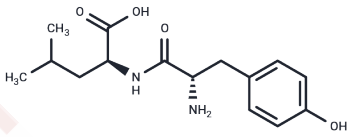
Data Sheet (Cat.No.T20443)

TargetMol

Tyrosylleucine

Chemical Properties



CAS No. : 17355-10-1

Formula: C15H22N2O4

Molecular Weight: 294.35

Storage: Keep away from moisture
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	Tyrosylleucine is a dipeptide composed of tyrosine and leucine. Some dipeptides are known to have physiological or cell-signaling effects although most are simply short-lived intermediates on their way to specific amino acid degradation pathways following further proteolysis.

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3973 mL	16.9866 mL	33.9732 mL
5 mM	0.6795 mL	3.3973 mL	6.7946 mL
10 mM	0.3397 mL	1.6987 mL	3.3973 mL
50 mM	0.0679 mL	0.3397 mL	0.6795 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

Moreira IP, Sasselli IR, Cannon DA, Hughes M, Lamprou DA, Tuttle T, Ulijn RV. Enzymatically activated emulsions stabilised by interfacial nanofibre networks. Soft Matter. 2016 Mar 7;12(9):2623-31. doi: 10.1039/c5sm02730f. Epub 2016 Feb 1. PubMed PMID: 26905042.

Mizushige T, Kanegawa N, Yamada A, Ota A, Kanamoto R, Ohinata K. Aromatic amino acid-leucine dipeptides exhibit anxiolytic-like activity in young mice. Neurosci Lett. 2013 May 24;543:126-9. doi: 10.1016/j.neulet.2013.03.043. Epub 2013 Apr 6. PubMed PMID: 23570730.

Domingues P, Fonseca C, Reis A, Domingues MR. Identification of isomeric spin adducts of Leu-Tyr and Tyr-Leu free radicals using liquid chromatography-tandem mass spectrometry. Biomed Chromatogr. 2012 Jan;26(1):51-60. doi: 10.1002/bmc.1624. Epub 2011 Mar 23. PubMed PMID: 21432862.

Kanegawa N, Suzuki C, Ohinata K. 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. doi: 10.1016/j.febslet.2009.12.008. Epub 2009 Dec 23. PubMed PMID: 20005875.