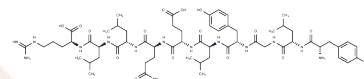


α -Casozepine

Chemical Properties

CAS No. :	117592-45-7
Formula:	C60H94N14O16
Molecular Weight:	1267.47
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	α -Casozepine, a bioactive peptide derived from milk α -S1 casein, exhibits affinity for γ -aminobutyric acid (GABA) receptors in the brain and demonstrates anti-anxiety effects.
Targets(IC50)	GABA Receptor

Solubility Information

Solubility	DMSO: 15 mg/mL (11.83 mM), Sonication is recommended. H2O: 50 mg/mL (39.45 mM), when pH is adjusted to 2 with 1 M HCl. Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.789 mL	3.9449 mL	7.8897 mL
5 mM	0.1578 mL	0.789 mL	1.5779 mL
10 mM	0.0789 mL	0.3945 mL	0.789 mL
50 mM	0.0158 mL	0.0789 mL	0.1578 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

Miclo L, et al. Characterization of α -Casozepine, a tryptic peptide from bovine alpha(s1)-casein with benzodiazepine-like activity. *FASEB J.* 2001 Aug;15(10):1780-2.

Miyaji K, et al. Experimental Verification of the Effects on Normal Domestic Cats by Feeding Prescription Diet for Decreasing Stress. *J Appl Anim Welf Sci.* 2015;18(4):355-62.

Dela Peña IJ, et al. A tryptic hydrolysate from bovine milk α s1-casein enhances pentobarbital-induced sleep in mice via the GABAA receptor. *Behav Brain Res.* 2016 Oct 15;313:184-90.

Landsberg G, et al. Therapeutic effects of an α -Casozepine and L-tryptophan supplemented diet on fear and anxiety in the cat. *J Feline Med Surg.* 2017 Jun;19(6):594-602.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481