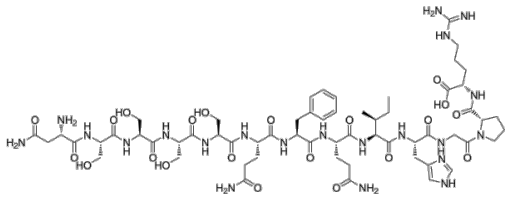
Product Data Sheet

Product Name: Murine ZP3 peptide (330-342)
Cat. No.: GC81373

Chemical Properties

Cas. No.	152439-29-7		
Formula	$C_{60}H_{93}N_{21}O_{21}$	M.Wt	1444.51
Solubility	DMSO: 100 mg/mL (69.23 mM; Need ultrasonic)	Storage	Sealed storage, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

Murine ZP3 peptide (330-342) is a zona pellucida 3 polypeptide fragment with the amino acid sequence NSSSSQFQIHGPR. Murine ZP3 peptide (330-342) induces autoimmune premature

ovarian failure (POF). Murine ZP3 peptide (330-342) can be used for the research of premature ovarian failure [1].

In Vivo, Murine ZP3 peptide (330-342) (emulsified in complete Freund's adjuvant (CFA)) (50 nmol/L; s.c.; the second injection at an interval of 7 days (emulsified in incomplete Freund's adjuvant (IFA))) reliably induces premature ovarian failure in female Balb/c mice, as evidenced by disrupted serum hormone and cytokine profiles, altered ovarian and uterine morphology, reduced endometrial receptivity markers, and perturbed local immune cell populations[1].

References:
[1]. Lu X, et al. The effects of human umbilical cord-derived mesenchymal stem cell transplantation on endometrial receptivity are associated with Th1/Th2 balance change and uNK cell expression of uterine in autoimmune premature ovarian failure mice. Stem Cell Res Ther. 2019;10(1):214. Published 2019 Jul 22.