

## Phoenixin-14 TFA

## Chemical Properties

CAS No. :

Formula: C75H110N18O20.xC2HF3O2

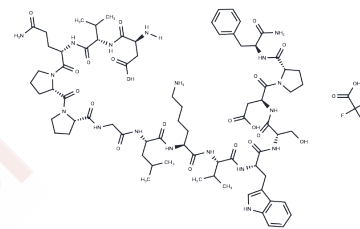
Molecular Weight:

Keep away from moisture, Keep away from direct sunlight

Storage:

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	Phoenixin-14 TFA (PNX-14) is a blood-brain barrier (BBB)-penetrable neuropeptide with anxiolytic, cardioprotective, and neuroprotective properties. It modulates pituitary gonadotrophin release by enhancing gonadotropin-releasing hormone (GnRH) receptor mRNA expression and promotes insulin secretion. Additionally, PNX-14 TFA protects against ischemia/reperfusion (IR) injury in mice and combats oxidative stress by diminishing reactive oxygen species (ROS) and elevating glutathione (GSH) levels [1] [2] [3].
Targets(IC50)	GNRH Receptor

## Solubility Information

Solubility	DMSO: 100 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

## Reference

Ma H, et al. Phoenixin 14 inhibits ischemia/reperfusion-induced cytotoxicity in microglia. Arch Biochem Biophys. 2020 Aug 15;689:108411.

Mlyczyńska E, et al. Phoenixin-14 as a novel direct regulator of porcine luteal cell function†. Biol Reprod. 2024 Jan 13;110(1):154-168.

Yu Z, et al. Phoenixin-14 Promotes the Recovery of Neurological Dysfunction After Spinal Cord Injury by Regulating Microglial Polarization via PTEN/Akt Signaling Pathway. Hum Exp Toxicol. 2022 Jan-Dec;41:9603271221111345.

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