Product Data Sheet

Product Name: Pancreatic Polypeptide, rat TFA
Cat. No.: GC81851

Chemical Properties

Cas. No.			
Formula	$C_{195}H_{298}N_{58}O_{57}S{\cdot}xC_2HF_3O_2$	M.Wt	4398.87
Solubility		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

Pancreatic Polypeptide, rat TFA (Rat pancreatic polypeptide TFA) is a rat-derived Pancreatic Polypeptide. Pancreatic Polypeptide is a preferential agonist of NPYR4. Pancreatic Polypeptide, rat TFA protects cells against Streptozotocin -induced DNA damage. Pancreatic Polypeptide, rat inhibits glucose-stimulated insulin secretion. Pancreatic Polypeptide, rat (TFA) can be used in diabetes-related research [1] [2].

Caution: Product has not been fully validated for medical applications. For research use only.
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In Vitro, Pancreatic Polypeptide, rat (0.1 μM-1 μM) TFA inhibits glucose-stimulated insulin secretion in rat BRIN BD11 β-cells, with no effect at lower concentrations or under basal glucose levels[2]. Pancreatic Polypeptide, rat (1 μM; 2 h) TFA completely protects rat BRIN BD11 β-cells against Streptozotocin -induced DNA damage[2].

References:

[1]. Kimmel JR, et al. Pancreatic polypeptide from rat pancreas. Endocrinology. 1984 May;114(5):1725-31.
[2]. Khan D, et al. Influence of neuropeptide Y and pancreatic polypeptide on islet function and beta-cell survival. Biochimica et biophysica acta. General subjects. 2017 Apr;1861(4):749-758.