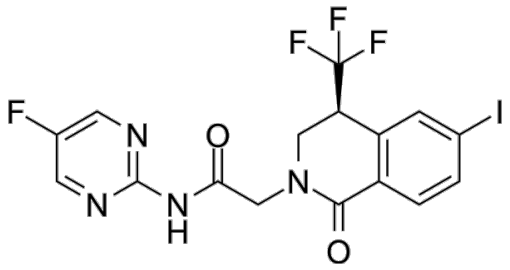
Product Data Sheet

Product Name: TN-783
Cat. No.: GC79411

Chemical Properties

Cas. No.			
Formula	$C_{16}H_{11}F_4IN_4O_2$	M.Wt	494.18
Solubility		Storage	Store at -20°C
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

TN-783 is an orally active, brain-penetrant NLRP3 (IC_{50} = 19.3 nM) inhibitor. TN-783 enhances the effects of the GLP-1 receptor agonist semaglutide. TN-783 requires sustained targeted action, not permanent metabolic remodeling. TN-783 can be used for the study of obesity [1].

In Vivo, TN-783 (0.5-50 mg/kg, p.o., twice daily, 14-66 days) can achieve safe (lean body mass preservation), effective, and reversible weight loss by reducing hypothalamic neuroinflammation[1].

Caution: Product has not been fully validated for medical applications. For research use only.
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In Vitro, TN-783 (2 h) can effectively inhibit the secretion of IL-1β (IC_{50} = 45.9 nM) by THP-1 cells, under Lipopolysaccharides (LPS)/Nigericin stimulation[1]. TN-783 (0.3 nM-6 μM, 1 h) can dose-dependently inhibit the secretion of IL-1β (IC_{50} = 5.17 nM) and IL-18 (IC_{50} = 12.3 nM) in THP-1 cells induced by Palmitic acid -BSA complex[1].

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