

Tirzepatide hydrochloride

Cat. No.:	HY-P1731B
Molecular Formula:	ClH
Molecular Weight:	4849.91
Sequence Shortening:	Y-{Aib}-EGFTSDYSI-{Aib}-LDKIAQ-{diacid-gamma-Glu-(AEEA) ₂ -Lys}-AFVQWLIAGGPSS GAPPPS-NH ₂ <small>Y-(Aib)-EGFTSDYSI-(Aib)-LDKIAQ-(diacid-gamma-Glu-(AEEA)₂-Lys)-AFVQWLIAGGPSSGAPPPS-NH₂ H-Cl</small>
Target:	GCGR
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (10.31 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	0.2062 mL	1.0309 mL	2.0619 mL
		5 mM	0.0412 mL	0.2062 mL	0.4124 mL
	10 mM	0.0206 mL	0.1031 mL	0.2062 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (0.52 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (0.52 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Tirzepatide hydrochloride (LY3298176 hydrochloride) is a dual glucose-dependent insulintropic polypeptide (GIP) and glucagon-like peptide-1 (GLP-1) receptor agonist that is being developed for the treatment of type 2 diabetes ^[1] .
In Vivo	Tirzepatide hydrochloride (LY3298176 hydrochloride) shows significantly better efficacy with regard to glucose control and weight loss than Dulaglutide ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Frias JP, et al. Efficacy and safety of LY3298176, a novel dual GIP and GLP-1 receptor agonist, in patients with type 2 diabetes: a randomised, placebo-controlled and active comparator-controlled phase 2 trial. *Lancet*. 2018 Nov 17;392(10160):2180-2193.

Caution: Product has not been fully validated for medical applications. For research use only.

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