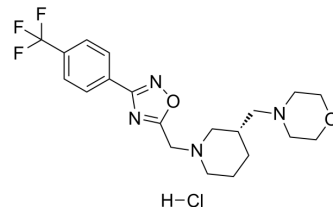


(S)-V-0219 hydrochloride

Cat. No.:	HY-143312E
Molecular Formula:	C ₂₀ H ₂₆ ClF ₃ N ₄ O ₂
Molecular Weight:	446.89
Target:	GLP Receptor
Pathway:	GPCR/G Protein
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (223.77 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2377 mL	11.1884 mL	22.3769 mL
	5 mM	0.4475 mL	2.2377 mL	4.4754 mL
	10 mM	0.2238 mL	1.1188 mL	2.2377 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

(S)-V-0219 hydrochloride is an enantiomer of V-0219 (HY-143312). V-0219 is an orally active and positive allosteric modulator (PAM) of the GLP Receptor-1 (GLP-1R). (S)-V-0219 hydrochloride activates calcium fluxes in HEK cells stably expressing hGLP-1R. (S)-V-0219 hydrochloride is orally active and ameliorates high glucose levels in mice and inhibits feeding behavior in fasted mice^[1].

IC₅₀ & Target

GLP-1R^[1]

In Vitro

(S)-V-0219 ((S)-9) (0.1 nM) hydrochloride potentiates calcium fluxes in HEK cells stably expressing hGLP-1R^[1].
 (S)-V-0219 (0.1 nM) hydrochloride potentiates insulin secretion stimulated by GLP-1 in the stable human pancreatic cell line EndoC-βH1 under high glucose concentration^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

(S)-V-0219 ((S)-9) (0.04-0.2 mg/kg; i.p.) hydrochloride improves glucose handling after injection of 2 g/kg glucose in normal male Wistar rats^[1].
 (S)-V-0219 (0.4 mg/kg; i.g.) hydrochloride is orally active in fatty diabetic Zucker rats^[1].
 (S)-V-0219 (0.1-5 μg/kg in 5 μL; i.c.v.) hydrochloride decreases feeding in 12-h fasted male Wistar rats^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Decara JM, et, al. Discovery of V-0219: A Small-Molecule Positive Allosteric Modulator of the Glucagon-Like Peptide-1 Receptor toward Oral Treatment for "Diabesity". J Med Chem. 2022 Apr 14;65(7):5449-5461.

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

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