

TT-232

Cat. No.:	HY-105172
CAS No.:	147159-51-1
Molecular Formula:	C ₄₅ H ₅₈ N ₁₀ O ₉ S ₂
Molecular Weight:	947.13
Target:	Somatostatin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder -80°C 2 years
	-20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

BIOLOGICAL ACTIVITY

Description	TT-232 (CAP-232), a somatostatin derivative, is a peptide SSTR1/SSTR4 agonist. TT-232 inhibits cancer cell proliferation and induces apoptosis. TT-232 is also a broad-spectrum anti-inflammatory and analgesic agent ^{[1][2][4]} .	
IC ₅₀ & Target	SSTR1	SSTR4
In Vitro	TT-232 (10 µg/mL, 48 h) induces apoptosis in human colon (HT-29 and SW620), pancreatic (818), leukemia (K-562), melanoma (WM 938/B, M-1 and EP) and lymphoma (HT-58) tumor cell lines ^[1] . TT-232 (20-30 µg/mL, 24 h) shows antiproliferative effect on various human tumor cell lines ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[2]	
	Cell Line:	MCF7, PC-3, P818, K-562, 4-1ST, ect.
	Concentration:	20-30 µg/mL
	Incubation Time:	24 h
	Result:	Inhibited cell proliferation by 87%, 90%, 98%, 95%, respectively.
	In Vivo	TT-232 (15-750 µg/kg/day, twice a day) inhibits tumor growth in mice transplanted with Colon 26 cell ^[2] . TT-232 (0.6 or 15 µg/kg s.c or i.p.) shows antitumor effect on P-388 rodent lymphocytic leukemia tumor mice ^[3] . TT-232 (7.5-20 µg/kg, i.v.) inhibits Carrageenin-induced paw oedema in rats ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:		Mice transplanted with Colon 26 cell ^[2] .
Dosage:		15, 150, 750 µg/kg/day
Administration:		Intraperitoneal injection (i.p.)
Result:		Reached 70% tumor inhibition at 750 µg/kg.

REFERENCES

- [1]. Szende B, et al. TT-232: a somatostatin structural derivative as a potent antitumor drug candidate. *Anticancer Drugs*. 2003 Sep;14(8):585-8.
- [2]. Kéri G, et al. A tumor-selective somatostatin analog (TT-232) with strong in vitro and in vivo antitumor activity. *Proc Natl Acad Sci U S A*. 1996 Oct 29;93(22):12513-8.
- [3]. Tejeda M, et al. Growth inhibitory effect of the somatostatin structural derivative (TT-232) on leukemia models. *Anticancer Res*. 2005 Jan-Feb;25(1A):325-30.
- [4]. Pintér E, et al. Pharmacological characterisation of the somatostatin analogue TT-232: effects on neurogenic and non-neurogenic inflammation and neuropathic hyperalgesia. *Naunyn Schmiedebergs Arch Pharmacol*. 2002 Aug;366(2):142-50.
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Caution: Product has not been fully validated for medical applications. For research use only.

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