FR 113680

MedChemExpress

Target: Pathway:	HY-105436 126088-92-4 C ₃₅ H ₃₉ N ₅ O ₆ 625.71 Ac-Thr-{d-Trp(For)}-{Phe(NMe,Bzl)} Ac-T-{d-Trp(For)}-{Phe(NMe,Bzl)} Neurokinin Receptor GPCR/G Protein; Neuronal Signaling Please store the product under the recommended conditions in the Certificate of	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY			
Description	FR 113680 is a tripeptide substance P antagonist that interacts selectively with the NK ₁ neurokinin receptor ^[1] .		
In Vitro	The inhibitory effect of FR 113680 on SP-induced guinea-pig ileum contraction is competitive and the pA ₂ value is 7.53 ^[1] . FR 113680 has not effect on [³ H]-SP binding to rat cerebral cortical membranes (NK ₁), [³ H]-neurokinin A ([³ H]-NKA) binding to rat duodenum smooth muscle membranes (NK ₂) and [³ H]-eledoisin (Ele) binding to rat cerebral cortical membranes (NK ₃) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	FR 113680 (32 mg/kg; i.v.; once) significantly inhibits cigarette smoke-induced plasma extravasation ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Male Wistar rats, cigarette smoke-induced rat tracheal plasma extravasation model $^{[2]}$	
	Dosage:	0, 10 and 32 mg/kg	
	Administration:	IV, once	
	Result:	Significantly inhibited cigarette smoke-induced rat tracheal plasma extravasation at a dose of 32 mg/kg.	

REFERENCES

[1]. Morimoto H, et al. FR 113680: a novel tripeptide substance P antagonist with NK1 receptor selectivity. Br J Pharmacol. 1992 May;106(1):123-6.

[2]. Morimoto H, et al. Effects of FR 113680 and FK 224, novel tachykinin receptor antagonists, on cigarette smoke-induced rat tracheal plasma extravasation. Eur J Pharmacol. 1992 Nov 24;224(1):1-5.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA