[DAla4] Substance P (4-11)

Cat. No.:	HY-P3883
CAS No.:	81381-50-2
Molecular Formula:	$C_{44}H_{65}N_{11}O_{10}S$
Molecular Weight:	940.12
Sequence Shortening:	{D-Ala}-QQFFGLM-NH2
Target:	Neurokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	[DAla4] Substance P (4-11) is an analog of Substance P (Substance P (HY-P0201)) that inhibits the binding of ^{125}I-Bolton Hunter-conjugated Eledoisin (Eledoisin (HY-P0006)) (IC_{50} of 0.5 μM) and ^{125}I-Bolton Hunter-conjugated Substance P (IC_{50} of 0.15 μM) to rat brain cortex membranes[1].
In Vitro	Eledoisin and Substance P are members of a class of peptides termed tachykinins. They share a similar spectrum of biological activities. [DAla4] Substance P (4-11) ([D-Ala^0-(5-11)]SP) inhibits the binding of ^{125}I-Bolton Hunter-conjugated Eledoisin and ^{125}I-Bolton Hunter-conjugated Substance P to rat brain cortex membranes[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. M A Cascieri, et al. Demonstration of two distinct tachykinin receptors in rat brain cortex. J Biol Chem. 1985 Feb 10;260(3):1501-7.

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