Substance P (5-11) (TFA)

Cat. No.: HY-P3890A

Molecular Formula: $C_{41}H_{60}N_{10}O_9S.xC_2HF_3O_2$

Sequence: Gln-Gln-Phe-Phe-Gly-Leu-Met-NH2

Sequence Shortening: QQFFGLM-NH2

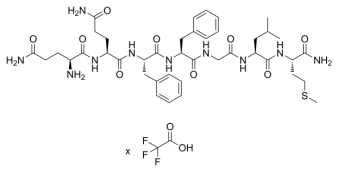
Target: Neurokinin Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Sealed storage, away from moisture and light

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)



SOLVENT & SOLUBILITY

In Vitro	H_2O : 100 mg/mL (Need ultrasonic)

BIOLOGICAL ACTIVITY

Description	Substance P (5-11) TFA TFA, the C-terminal heptapeptide of Substance P (Substance P (HY-P0201)), is a neuropeptide. Substance P (5-11) TFA TFA binds to NK-1 tachykinin receptor[1].
In Vitro	When a fraction from rabbit brain enriched in glial cells was incubated with [^{3}H]Substance P (5-11) TFA TFA, an uptake of [3H]Substance P (5-11) TFA TFA is observed. When Substance P is released from nerve terminals, it is hydrolysed into Substance P (5-11) TFA TFA, which is in turn accumulated into glial cells as well as nerve terminals and that this high affinity uptake mechanism may play an important role in terminating the synaptic action of Substance P[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. A Inoue, et al. Active uptake system for substance P carboxy-terminal heptapeptide (5-11) into a fraction from rabbit enriched in glial cells. Jpn J Pharmacol. 1984 Oct;36(2):137-45.

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