DALDA TFA

Cat. No.: HY-P3870B

Molecular Formula: $C_{30}H_{45}N_9O_5.xC_2HF_3O_2$

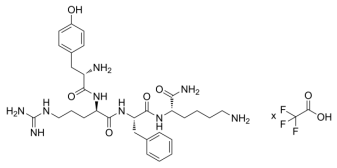
Sequence: Tyr-{d-Arg}-Phe-Lys-NH2

Sequence Shortening: Y-{d-Arg}-FK-NH2

Target: Opioid Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DALDA TFA is a potent and highly selective μ-opioid receptor agonist with a K_i of 1.69 nM. DALDA TFA shows antinociceptive and respiratory effects[1].
In Vitro	DALDA carrys a net positive charge (3+) at physiological pH and is thus hydrophilic and more polar than morphine[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	DALDA (0-7 nmol/rat; i.t.; once) shows antinociceptive and respiratory effects in rats[1]. DALDA (0.1 and 1.0 μg/side; ICV; once) results in biphasic effects, with an initial suppression, an intermediate marked inhibition, followed by activation for horizontal movement, rearing and stereotypy times in rats[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shimoyama M, et al. Antinociceptive and respiratory effects of intrathecal H-Tyr-D-Arg-Phe-Lys-NH2 (DALDA) and [Dmt1] DALDA. Journal of Pharmacology and Experimental Therapeutics, 2001, 297(1): 364-371.

[2]. Meyer ME, et al. DALDA (H-Tyr-D-Arg-Phe-Lys-NH2), a potent mu-opioid peptide agonist, affects various patterns of locomotor activities. Pharmacol Biochem Behav. 1995 May;51(1):149-51.

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