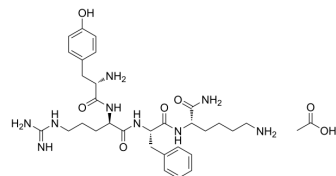


DALDA acetate

| | |
|-----------------------------|---|
| Cat. No.: | HY-P3870A |
| Molecular Formula: | C ₃₂ H ₄₉ N ₉ O ₇ |
| Molecular Weight: | 671.79 |
| Sequence: | Tyr-[D-Arg]-Phe-Lys-NH ₂ |
| Sequence Shortening: | Y-[D-Arg]-FK-NH ₂ |
| Target: | Opioid 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

DMSO : 100 mg/mL (148.86 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent | Mass | 1 mg | 5 mg | 10 mg |
|---------------------------|---------------|------|-----------|-----------|------------|
| | Concentration | | | | |
| | 1 mM | | 1.4886 mL | 7.4428 mL | 14.8856 mL |
| | 5 mM | | 0.2977 mL | 1.4886 mL | 2.9771 mL |
| | 10 mM | | 0.1489 mL | 0.7443 mL | 1.4886 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

DALDA acetate is a potent and highly selective μ -opioid receptor agonist with a K_i of 1.69 nM. DALDA acetate shows antinociceptive and respiratory effects^[1].

In Vitro

DALDA acetate carries 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 acetate (0-7 nmol/rat; i.t.; once) shows antinociceptive and respiratory effects in rats^[1]. DALDA acetate (0.1 and 1.0 μ g/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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Caution: Product has not been fully validated for medical applications. For research use only.

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