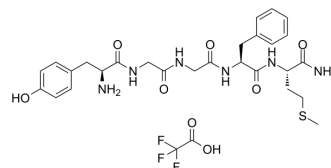


[Met5]-Enkephalin, amide TFA

Cat. No.:	HY-P1467A
Molecular Formula:	C ₂₉ H ₃₇ F ₃ N ₆ O ₈ S
Molecular Weight:	686.7
Sequence:	Tyr-Gly-Gly-Phe-Met-NH ₂
Sequence Shortening:	YGGFM-NH ₂
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (145.62 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.4562 mL	7.2812 mL	14.5624 mL
		5 mM		0.2912 mL	1.4562 mL	2.9125 mL
	10 mM		0.1456 mL	0.7281 mL	1.4562 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (72.81 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	[Met5]-Enkephalin, amide TFA is an agonist for δ opioid receptors as well as putative ζ (zeta) opioid receptors.
IC₅₀ & Target	δ and ζ opioid receptor ^[1]
In Vitro	<p>[Met5]-Enkephalin at 0.1 nM, 10 nM, and 1 μM significantly reduces the total number of glial cells in culture^[1]. [Met5]-Enkephalin, amide acts via δ-opioid receptor to inhibit pelvic nerve-evoked contractions of cat distal colon. [Met5]-enkephalin causes concentration-dependent, reversible inhibition of pelvic nerve-evoked contractions, with an IC₅₀ value of 2.2 nM. [Met5]enkephalin at a concentration (3 nM) which produces a large inhibition of neurogenic contractions, has no effect on contractions to exogenous acetylcholine^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Stiene-Martin A, et al. Glial growth is regulated by agonists selective for multiple opioid receptor types in vitro. J Neurosci Res. 1991 Aug;29(4):538-48.
- [2]. Kennedy C, et al. [Met5]enkephalin acts via delta-opioid receptors to inhibit pelvic nerve-evoked contractions of cat distal colon. Br J Pharmacol. 1987 Oct;92(2):291-8.
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Caution: Product has not been fully validated for medical applications. For research use only.

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