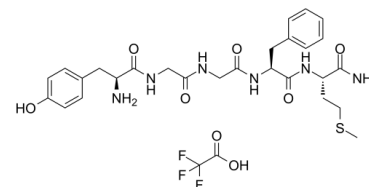


Data Sheet

Product Name:	[Met5]-Enkephalin, amide (TFA)
Cat. No.:	CS-0100517
Molecular Formula:	C ₂₉ H ₃₇ F ₃ N ₆ O ₈ S
Molecular Weight:	686.70
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	H ₂ O



BIOLOGICAL ACTIVITY:

[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:** [Met5]-Enkephalin at 0.1 nM, 10 nM, and 1 μ M 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].

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.

CAIndexNames:

L-Methioninamide, L-tyrosylglycylglycyl-L-phenylalanyl- (TFA)

SMILES:

CSCC[C@@H](C(N)=O)NC([C@H](CC1=CC=CC=C1)NC(CNC(CNC([C@H](CC2=CC=C(O)C=C2)N)=O)=O)=O).OC(C(F)(F)F)=O

Caution: Product has not been fully validated for medical applications. For research use only.

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