



LKT Laboratories, Inc.

Tyr-W-MIF-1

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lctlabs.com
Web: lctlabs.com

Product Information

Product ID M3220

CAS No. 144450-13-5

Chemical Name

Synonym (Tyr0, Trp2)-Melanocyte-stimulating hormone-release inhibiting factor

Formula $C_{27}H_{32}N_6O_5$

Formula Wt. 520.59

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Tyr-W-MIF-1 is a neuromodulatory peptide of the MIF-1 family that acts as an antagonist at $\mu 2$ -opioid receptors (μORs). When given alone, Tyr-W-MIF-1 induces mixed, dose-dependent effects on μORs ; Tyr-W-MIF-1 inhibits the analgesic and antinociceptive activities of opioids when co-administered. This peptide inhibits stress-induced secretion of adrenocorticotrophic hormone (ACTH) and corticosterone. Tyr-W-MIF-1 may also modulate reward processing through its activities at opioid receptors, as it induces conditioned place preference in animal models when delivered alone. TEST!!!!!!

H-Tyr-Pro-Trp-Gly-NH₂

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
M3220	5 mg	\$179.60
M3220	10 mg	\$299.30
M3220	25 mg	\$598.50

References Mizoguchi H, Takagi H, Watanabe C, et al. Involvement of multiple μ -opioid receptor subtypes on the presynaptic or postsynaptic inhibition of spinal pain transmission. *Peptides*. 2013 Oct 25. pii: S0196-9781(13)00344-6. PMID: 24512946.

Bocheva A, Dzambazova E, Hadjiolova R, et al. Effect of Tyr-MIF-1 peptides on blood ACTH and corticosterone concentration induced by three experimental models of stress. *Auton Autacoid Pharmacol*. 2008 Oct;28(4):117-23. PMID: 18798907.

Bocheva A, Dzambazova-Maximova E. Antioioid properties of the TYR-MIF-1 family. *Methods Find Exp Clin Pharmacol*. 2004 Nov;26(9):673-7. PMID: 15632952.

Nores WL, Olson RD, Olson GA, et al. Tyr-W-MIF-1-induced conditioned place preference. *Peptides*. 1999;20(4):479-84. PMID: 10458518.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.