

**Endomorphin-1****Cat. No.:** RP10925**Size:** 5 mg**Alias:** Endomorphin1; EM-1; EM1**Description:**

Endomorphin-1 (EM-1) is a recently isolated endogenous peptide having potent analgesic activity and high affinity and selectivity for the mu-opioid receptor. Endomorphin-1 activates G proteins and inhibits adenylyl cyclase activity in membrane preparations from cells stably expressing the mu opioid receptor, an effect reversed by the mu receptor antagonist CTAP (D-Phe-Cys-Tyr-D-Trp-Arg-Thr-Pen-Thr-NH<sub>2</sub>). However, endomorphin-1 appears to have no influence on cells stably expressing the delta opioid receptor.

**Cas No:** 189388-22-5**C-Terminal:** NH<sub>2</sub>**Sequence (one-letter code):**YPWF-NH<sub>2</sub>**Sequence (three-letter code):**{TYR}{PRO}{TRP}{PHE}-NH<sub>2</sub>

**Solubility:** The peptide is soluble in water. The contents of this vial have been accurately determined. Both the stopper and the vial have been siliconized. Do not attempt to weigh out a smaller portion of the contents.

**Formula:** C<sub>34</sub>H<sub>38</sub>N<sub>6</sub>O<sub>5</sub>**Molecular Weight:** 610.7**Purity:** > 95%**Storage:**

Store the peptide at -20°C. Keep container tightly closed.

**Note:** Endomorphin-1 is a potent, selective endogenous μ opioid receptor agonist.

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