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Dynorphins

Dynorphins

Dynorphin, a very powerful endogenous opioid ligand, is a 17-amino acid brain natural peptide that plays a major role in pain control and in the regulation of immune response. It also promotes emotional balance, enhances mental activity and reduces feelings that lead to compulsive behavior. This peptide contains a pleasure producing substance known as leu-enkephalin at the NH₂ terminus of the sequence. Dynorphins also have a high affinity for κ -receptors that mediate many of the unpleasant dysphoric side effects of opioids. Dynorphin A peptides provide analgesia and also prevent or reverse opiate withdrawal signs and symptoms in morphine-dependent animals and possibly also in humans.

Ref: Warner, FJ. et al. *Cell Mol. Life Sci.* **61**, 2704 (2004); Leitermann, RJ. et al. *Eur. J. Pharmacol.* **504**, 177 (2004); Terashvili, M. et al. *J. Pharmacol. Exp. Ther.* (2004); [Epub ahead of print] Ventura, C. et al. *Circulation Res.* **92**, 623 (2003); Kreek, MJ. et al. *Pharmacol.* **288**, 260 (1999); Day, R. et al. *J. Biol. Chem.* **273**, 829 (1998).

Product	MW	Size	Catalog#	US\$
Dynorphin A (1-7), porcine YGGFLRR H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-OH	868.0	1 mg 5 mg	24299 24300	\$25 \$100
Dynorphin A (1-8), porcine YGGFLRRI H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-OH	981.2	1 mg 5 mg	24301 24302	\$25 \$100
Dynorphin A (1-9), porcine YGGFLRRIR H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-OH	1137.4	1 mg 5 mg	24303 24304	\$30 \$120
Dynorphin A (1-10), porcine YGGFLRRIRP H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-OH	1234.5	1 mg 5 mg	24305 24306	\$35 \$140
Dynorphin A (1-13), porcine YGGFLRRIRPKLK H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-OH	1604.0	1 mg 5 mg	24307 24308	\$40 \$160
[D-Arg⁶]-Dynorphin A (1-13), porcine YGGFLrRIRPKLK H-Tyr-Gly-Gly-Phe-Leu-D-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-OH	1604.0	1 mg 5 mg	24309 24310	\$50 \$200
[D-Arg⁸]-Dynorphin A (1-13), porcine YGGFLRRrRPKLK H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-D-Arg-Arg-Pro-Lys-Leu-Lys-OH	1604.0	1 mg 5 mg	24311 24312	\$50 \$200
Dynorphin A (1-17) YGGFLRRIRPKLKWDNQ H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-Trp-Asp-Asn-Gln-OH	2147.5	1 mg 5 mg	24297 24298	\$50 \$200
Biotin-Dynorphin A (1-17) Biotin-YGGFLRRIRPKLKWDNQ Biotin-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-Trp-Asp-Asn-Gln-OH	2373.8	1 mg 5 mg	23978 23979	\$125 \$500
Dynorphin A (2-13), porcine GGFLRRIRPKLK H-Gly-Gly-Phe-Leu-Arg-Arg-Ile-Arg-Pro-Lys-Leu-Lys-OH	1440.8	1 mg 5 mg	24313 24314	\$40 \$160