

Drug Status Report

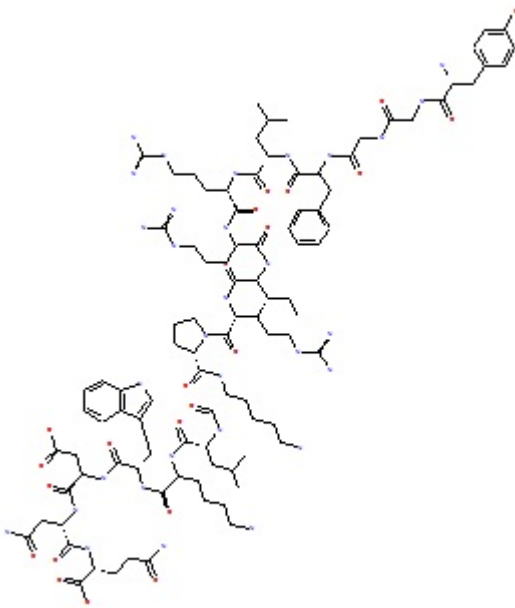
Drug: Dynorphin

Drug Name Status: Dynorphin is the common name.

Chemical Name: Dynorphin

Other Names: DYN; Dynorphine

Chemical structure:



Molecular Formula: $C_{99}H_{155}N_{31}O_{23}$

CAS-RN: 74913-18-1

Pharmacological class / Application: peptide

US: Dynorphine is not currently listed on the schedules to the US Controlled Substances Act and is not mentioned on the DEA website.

United Nations: The substance is not listed on the Yellow List - List of Narcotic Drugs under International Control, the Green List - List of Psychotropic Substances under International Control, nor the Red List - List of Precursors and Chemicals Frequently used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances Under International Control.

Canadian Status: Dynorphin is a class of opioid peptides that has been reported in the scientific

literature to play a role as central nervous system neurotransmitters¹. The substance is a ligand of the κ -receptor and is not structurally similar to any of the substances listed in the Schedules to the CDSA.

Recommendation: Dynorphin is not included in the schedules CDSA and is not a controlled substance.

July 15th 2010.

¹Tiseo, PJ *et al.* (1990) Differential release of substance P and somatostatin in the rat spinal cord in response to noxious cold and heat; effect of dynorphinA (1-17), J. Pharmacol. Expt. Ther. **252**:539-545.