

Drug Status Report

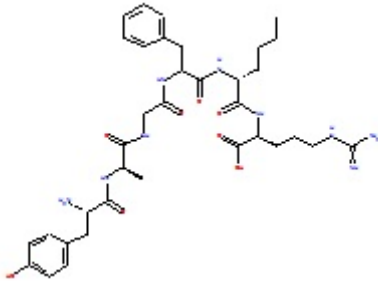
Drug: Dalargin

Drug Name Status: Dalargin is the common name.

Chemical Name: 1-6-β-Neoendorphin, 2-D-alanine

Other Names: Dalargine; 2-D-Alanin-1-6-beta-enoendorphin; Try-*D*-Ala-Gly-Phe-Leu-Arg; DALG

Chemical structure:



Molecular Formula: C₃₅H₅₁N₉O₈

CAS RN: 81733-79-1

Pharmacological class / Application: peptide

US: Dalargin 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: Dalargin is an opioid-like hexapeptide that has been reported display anti-inflammatory activity and offer gastroprotective effects¹. Although the substance is a μ-opioid agonist and exhibits analgesic activity, the hydrophilic nature of the substance limits its activity when administered systemically and therefore requires coupling to a vector for delivery to the central nervous system². The substance is not structurally similar to any of the substances listed in

¹Zhivotova, EY. *et al.* (2009) Gastroprotective effect of dalargin in gastropathy due to treatment with nonsteroid antiinflammatory drugs, *Bull. Expt. Biol. Med.* **147**:441-443.

²Rousselle, C. *et al.* (2003) Improved brain uptake and pharmacological activity of dalargin using a peptide-vector-mediated strategy, *J. Pharmacol. Exp. Ther.* **306**:371-376.

the Schedules to the CDSA.

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

July 15th 2010.