**Warning:**
This product is for research only - not for human or veterinary diagnostic or therapeutic use.

**Safety data:**
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete safety data sheet, which has been sent via email to your institution.

**Warranty and limitation of remedy:**
Buyer agrees to purchase the material subject to Cayman’s Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

---

**Dynorphin B**

*Item No. 18178*

**CAS Registry No.:** 83335-41-5  
**Formal Name:** dynorphin B (swine)  
**Synonyms:** Dynorphin B-13, Rimorphin  
**MF:** C_{74}H_{115}N_{21}O_{17}  
**FW:** 1,570.8  
**Purity:** ≥95%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ_{max} 278 nm

**Laboratory procedures**

For long term storage, we suggest that dynorphin B be stored as supplied at -20°C. It should be stable for at least two years.

Dynorphin B is supplied as a crystalline solid. A stock solution may be made by dissolving the dynorphin B in the solvent of choice. Dynorphin B is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of dynorphin B in these solvents is approximately 30 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of dynorphin B can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of dynorphin B in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

**Description**

Dynorphin B is a 13-residue opioid peptide released from the cleavage of prodynorphin and found widely distributed in the central nervous system.\(^1\)\(^2\) It acts as a κ_{1β}-opioid receptor agonist (K_{i} = 1.1 nM) and has been implicated in antinociceptive functions.\(^3\) Dynorphin B has also been used to prime cardiogenesis in pluripotent embryonic stem cells.\(^4\)

**References**