PRODUCT INFORMAT



Dynorphin B (1-9) (trifluoroacetate salt)

Item No. 24743

MF: $C_{54}H_{78}N_{16}O_{12} \bullet XCF_3COOH$

FW: 1,143.3 **Purity:** ≥95%

Supplied as: A lyophilized powder

Storage: -20°C Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Dynorphin B (1-9) (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the dynorphin B (1-9) (trifluoroacetate salt) in water. The solubility of dynorphin B (1-9) (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Dynorphin B (1-9) is a neuropeptide and N-terminal cleavage product of dynorphin B, an endogenous opioid. Formation of dynorphin B (1-9) is blocked by N-ethylmaleimide (NEM), a non-selective inhibitor of cysteine peptidases. Dynorphin B (1-9) is a competitive inhibitor of dynorphin A (1-9), binding to the 60 kDa N-terminal fragment of puromycin-sensitive aminopeptidase (ApPS⁶⁰).²

References

- 1. Bivehed, E., Strömvall, R., Bergguist, J., et al. Region-specific bioconversion of dynorphin neuropeptide detected by in situ histochemistry and MALDI imaging mass spectrometry. Peptides 87, 20-27 (2017).
- Ma, Z., Daquin, A., Yao, J., et al. Proteolytic cleavage of the puromycin-sensitive aminopeptidase generates a substrate binding domain. Arch. Biochem. Biophys. 415(1), 80-86 (2003).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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.

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