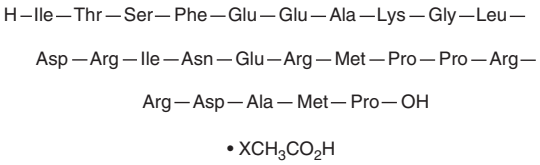
PRODUCT INFORMATION

Calcineurin Autoinhibitory Peptide (acetate)

Item No. 44133

Formal Name: L-isoleucyl-L-threonyl-L-seryl-L-phenylalanyl-L-α-glutamyl-L-α-glutamyl-L-alanyl-L-lysylglycyl-L-leucyl-L-α-aspartyl-L-arginyl-L-isoleucyl-L-asparaginyl-L-α-glutamyl-L-arginyl-L-methionyl-L-prolyl-L-prolyl-L-arginyl-L-arginyl-L-α-aspartyl-L-alanyl-L-methionyl-L-proline, acetate

Peptide Sequence: Ac-ITSFEEAKGLDRINERMPPRRDAMP-OH



MF: $C_{124}H_{205}N_{39}O_{39}S_2 \bullet XC_2H_4O_2$

FW: 2,930.4

Purity: ≥95%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years

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

Laboratory Procedures

Calcineurin autoinhibitory peptide (acetate) is supplied as a solid. A stock solution may be made by dissolving the calcineurin autoinhibitory peptide (acetate) in the solvent of choice, which should be purged with an inert gas. Calcineurin autoinhibitory peptide (acetate) is soluble (≥10 mg/ml) in DMSO.

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 calcineurin autoinhibitory peptide (acetate) can be prepared by directly dissolving the solid in aqueous buffers. Calcineurin autoinhibitory peptide (acetate) is soluble (≥10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

Calcineurin autoinhibitory peptide is a peptide fragment corresponding to residues 457 to 482 of calcineurin A that inhibits the phosphatase activity of calcineurin A in a cell-free assay (IC_{50} = 10 µM).[1]

Reference

1. Hashimoto, Y., Perrino, B.A., and Soderling, T.R. Identification of an autoinhibitory domain in calcineurin. *J. Biol. Chem.* **265(4)**, 1924-1927 (1990).

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