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Product Information

YEEI PEPTIDE, PHOSPHORYLATED Trifluoroacetate Salt

Product Number **Y 4377**

Storage Temperature –20 °C

Product Description

Sequence: Glu-Pro-Gln-Tyr(PO₃H₂)-Glu-Glu-Ile-Pro-Ile-Tyr-Leu

Molecular Weight: 1474.8 (free base); 1588.8 (salt)

YEEI Peptide [(pY)EEI] is a phosphopeptide that activates Src family members by binding to their SH2 domain with high affinity.

(pY)EEI added to rabbit ear artery cells increases calcium channel currents indicating (pY)EEI-activated c-Src has a role in voltage-operated calcium channel regulation.¹ The Src subfamily of SH2 domains was included in a study of peptide binding site preferences for specific phosphopeptide sequences.² Crystal structure studies of the peptide-Src domain complex has been reported.³

Reagent

YEEI Peptide is supplied as a chromatographically purified, lyophilized powder.

Vial Content: 1 mg of peptide/vial

Preparation Instructions

Water soluble

Storage/Stability

Store at –20 °C. Stock solutions should be stored in aliquots at –20 °C.

References

1. Wijetunge, S., and Hughes, A. D., Activation of endogenous c-Src or a related tyrosine kinase by intracellular (pY)EEI peptide increases voltage-operated calcium channel currents in rabbit ear artery cells. *FEBS Lett.*, **399**, 63-6 (1996).
2. Songyang, Z., et al. SH2 domains recognize specific phosphopeptide sequences. *Cell*, **72**, 767-778 (1993).
3. Waksman, G., et al., Binding of a high affinity phosphotyrosyl peptide to the Src SH2 domain: crystal structures of the complexed and peptide-free forms. *Cell*, **72**, 779-790 (1993).

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