

## H-Trp-Phe-Tyr-Ser(PO<sub>3</sub>H<sub>2</sub>)-Pro-Arg-pNA

Cat. No.:	HY-P3480
CAS No.:	202739-41-1
Molecular Formula:	C <sub>49</sub> H <sub>59</sub> N <sub>12</sub> O <sub>13</sub> P
Molecular Weight:	1055.04
Sequence:	Trp-Phe-Tyr-{PO <sub>2</sub> }-Ser-Pro-Arg
Sequence Shortening:	WFY{PO <sub>2</sub> }-SPR
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

H-Trp-Phe-Tyr-Ser(PO<sub>3</sub>H<sub>2</sub>)-Pro-Arg-pNA is a chromogenic substrate for Pin1. Pin1 is an essential and conserved mitotic peptidyl-prolyl isomerase, and can recognize the phosphoserine-proline bonds present in mitotic phosphoproteins<sup>[1][2]</sup>.

### REFERENCES

[1]. M B Yaffe, et al. Sequence-specific and phosphorylation-dependent proline isomerization: a potential mitotic regulatory mechanism. *Science*. 1997 Dec 12;278(5345):1957-60.

[2]. Kelly E Duncan, et al. Discovery and characterization of a nonphosphorylated cyclic peptide inhibitor of the peptidylprolyl isomerase, Pin1. *J Med Chem*. 2011 Jun 9;54(11):3854-65.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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