

Woodtide

Cat. No.:	HY-P3812
CAS No.:	634592-23-7
Molecular Formula:	C ₆₈ H ₁₂₂ N ₂₀ O ₂₁ S
Molecular Weight:	1587.88
Sequence Shortening:	KKISGRLSPIMTEQ
Target:	DYRK
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Woodtide is a substrate for the DYRK (DYRK) family of kinases whose sequence is based on that around the DYRK phosphorylation site in FKHR ^{[1][2]} .
In Vitro	Immunoprecipitated FLAG-dDYRK2 or FLAG-MNB is assayed using 50 μM Woodtide or 50 μM activation-loop peptide with two additional lysines attached to the N terminus to allow it to bind to P81 paper (KKSSCYVDRKIYTYIQSRFY for dDYRK2 or KKSSCQLGQRIYHYIQSRFY for MNB). Both kinases efficiently phosphorylated the synthetic exogenous substrate peptide Woodtide, but neither dDYRK2 nor MNB phosphorylated their activation-loop peptide ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Pamela A Lochhead, et al. Activation-loop autophosphorylation is mediated by a novel transitional intermediate form of DYRKs. Cell. 2005 Jun 17;121(6):925-36.
- [2]. Linda E Campbell, et al. Differing substrate specificities of members of the DYRK family of arginine-directed protein kinases. FEBS Lett. 2002 Jan 2;510(1-2):31-6.

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

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