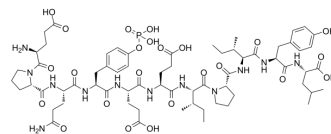


EPQpYEEIPIYL

Cat. No.:	HY-P3279
CAS No.:	147612-86-0
Molecular Formula:	C ₆₆ H ₉₇ N ₁₂ O ₂₄ P
Molecular Weight:	1473.52
Sequence Shortening:	EPQpYEEIPIYL
Target:	Src
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

H₂O : 2 mg/mL (1.36 mM; ultrasonic and adjust pH to 2 with HCl)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
1 mM			0.6786 mL	3.3932 mL	6.7865 mL
5 mM			---	---	---
10 mM			---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

EPQpYEEIPIYL, a phosphopeptide, is a Src homology 2 (SH2) domain ligand. EPQpYEEIPIYL activates Src family members (e.g. Lck, Hck, Fyn) by binding to SH2 domains^{[1][2]}.

In Vitro

The hmT-derived phosphopeptide, pY324, which has the sequence EPQpYEEIPIYL, shows the highest affinity binding to GST fusion proteins of the Lck SH2 domain (5-fold higher than Lck's affinity-for the Lck tail phosphopeptide) and the Src SH2 domain (44-fold higher than Src's affinity for the Src tail phosphopeptide)^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Life Sci Alliance. 2023, 6(3).

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REFERENCES

[1]. G Payne, et al. The phosphopeptide-binding specificity of Src family SH2 domains. Chem Biol. 1994 Oct;1(2):99-105.

[2]. T D Mulhern, et al. The SH2 domain from the tyrosine kinase Fyn in complex with a phosphotyrosyl peptide reveals insights into domain stability and binding specificity. Structure. 1997 Oct 15;5(10):1313-23.

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

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