

WL12

Cat. No.:	HY-P3440
Molecular Formula:	C ₉₁ H ₁₂₈ N ₂₂ O ₂₀ S
Molecular Weight:	1882.19
Sequence Shortening:	Cyclo(Ac-Y-{A(Me)}-NPHL-{Hyp}-WS(W(Me))-{Nle(Me)}-{Nle(Me)}-{Orn}-C)G-NH ₂ (Thioether bridge: Cys14-Ac-Tyr) <small>Cyclo(Ac-Y-{A(Me)}-NPHL-{Hyp}-WS(W(Me))-{Nle(Me)}-{Nle(Me)}-{Orn}-C)G-NH₂ (Thioether bridge: Cys14-Ac-Tyr)</small>
Target:	PD-1/PD-L1
Pathway:	Immunology/Inflammation
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (26.56 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	0.5313 mL	2.6565 mL	5.3130 mL
		5 mM	0.1063 mL	0.5313 mL	1.0626 mL
		10 mM	0.0531 mL	0.2656 mL	0.5313 mL
Please refer to the solubility information to select the appropriate solvent.					

BIOLOGICAL ACTIVITY

Description	WL12 is a specifically targeting programmed death ligand 1 (PD-L1) binding peptide. WL12 can be radiolabeled by different radionuclides, generating radiotracers, which can assess the tumor PD-L1 expression ^[1] .
IC₅₀ & Target	PD-L1 ^[1]

REFERENCES

[1]. Jiang J, et al. Noninvasive evaluation of PD-L1 expression using Copper 64 labeled peptide WL12 by micro-PET imaging in Chinese hamster ovary cell tumor model. Bioorg Med Chem Lett. 2021 May 15;40:127901.

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

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