

R18 TFA

Cat. No.:	HY-P1039A
Molecular Formula:	C ₁₀₃ H ₁₅₈ F ₃ N ₂₇ O ₃₁ S ₃
Molecular Weight:	2423.73
Sequence:	Pro-His-Cys-Val-Pro-Arg-Asp-Leu-Ser-Trp-Leu-Asp-Leu-Glu-Ala-Asn-Met-Cys-Leu-Pro PHCVPRDLSWLDLEANMCLP (TFA salt)
Sequence Shortening:	PHCVPRDLSWLDLEANMCLP
Target:	Raf
Pathway:	MAPK/ERK Pathway
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 : 50 mg/mL (20.63 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.4126 mL	2.0629 mL	4.1259 mL
	5 mM	0.0825 mL	0.4126 mL	0.8252 mL
	10 mM	0.0413 mL	0.2063 mL	0.4126 mL

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

BIOLOGICAL ACTIVITY

Description

R18 TFA is a peptide antagonists of 14-3-3, with a K_D of 70-90 nM. R18 efficiently blocks the binding of 14-3-3 to the kinase Raf-1, a physiological ligand of 14-3-3, and effectively abolished the protective role of 14-3-3 against phosphatase-induced inactivation of Raf-1^[1].

REFERENCES

[1]. B Wang, et al. Isolation of high-affinity peptide antagonists of 14-3-3 proteins by phage display. *Biochemistry*. 1999 Sep 21;38(38):12499-504.

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

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