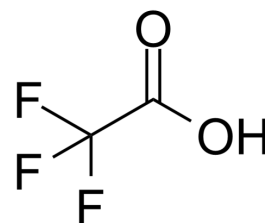


CMD178 TFA

Cat. No.:	HY-P1453A
Molecular Formula:	C ₉ H ₈ F ₅ KO ₃ Y
Molecular Weight:	964.05
Target:	STAT
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt
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)

RFKF[Y(OBn)]



SOLVENT & SOLUBILITY

In Vitro

H₂O : 2.5 mg/mL (2.59 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.0373 mL	5.1865 mL	10.3729 mL
	5 mM		---	---	---
	10 mM		---	---	---

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

BIOLOGICAL ACTIVITY

Description

CMD178 TFA is a lead peptide that consistently reduced the expression of Foxp3 and STAT5 induced by IL-2/s IL-2Rα signaling and inhibits T_{reg} cell development^[1].

In Vitro

CMD178 TFA (100 μM) suppresses IL-2-induced STAT5 phosphorylation and inhibits Foxp3 expression in T cells^[1].
 CMD178 TFA (100 μM) inhibits the development of T_{reg} cells induced by IL2/sIL-2Rα signaling^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Price-Troska T, et, al. Inhibiting IL-2 signaling and the regulatory T-cell pathway using computationally designed peptides. Invest New Drugs. 2019 Feb;37(1):9-16.

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

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