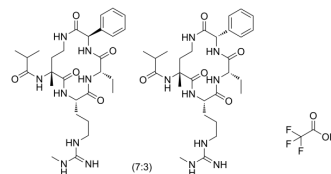


MM-589 (racemic mixture) (TFA)

Cat. No.:	HY-100869B
Molecular Formula:	C ₃₀ H ₄₅ F ₃ N ₈ O ₇
Molecular Weight:	686.72
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 40 mg/mL (58.25 mM); ultrasonic and adjust pH to 2 with 1M HCl)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.4562 mL	7.2810 mL	14.5620 mL
5 mM	0.2912 mL	1.4562 mL	2.9124 mL
10 mM	0.1456 mL	0.7281 mL	1.4562 mL

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

BIOLOGICAL ACTIVITY

Description

MM-589 (racemic mixture) TFA, is a racemic mixture of MM-589 TFA (HY-100869A). MM-589 TFA is a potent inhibitor of WD repeat domain 5 (WDR5) and mixed lineage leukemia (MLL) protein-protein interaction. MM-589 binds to WDR5 with an IC₅₀ of 0.90 nM and inhibits the MLL H3K4 methyltransferase activity with an IC₅₀ of 12.7 nM^[1].

IC₅₀ & Target

IC₅₀: 12.7 nM (H3K4 methyltransferase), 0.90 nM (WDR5)^[1]

REFERENCES

[1]. Karatas H, et al. Discovery of a Highly Potent, Cell-Permeable Macrocyclic Peptidomimetic (MM-589) Targeting the WD Repeat Domain 5 Protein (WDR5)-Mixed Lineage Leukemia (MLL) Protein-Protein Interaction. *J Med Chem.* 2017 Jun 22;60(12):4818-4839.

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

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