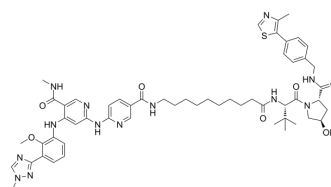


PROTAC TYK2 degradation agent1

Cat. No.:	HY-152227
CAS No.:	2921556-14-9
Molecular Formula:	C ₅₅ H ₆₉ N ₁₃ O ₇ S
Molecular Weight:	1056.28
Target:	JAK; PROTACs
Pathway:	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt; PROTAC
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (9.47 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	0.9467 mL	4.7336 mL	9.4672 mL
5 mM	0.1893 mL	0.9467 mL	1.8934 mL
10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

PROTAC TYK2 degradation agent1 is a potent and subtype-selective TYK2 degrader. PROTAC TYK2 degradation agent1 has TYK2 degradation activity with DC₅₀ value of 14 nM. PROTAC TYK2 degradation agent1 can be used for the research of autoimmune disease^[1].

IC₅₀ & Target

DC₅₀: 14 nM (TYK2)^[1]

In Vitro

PROTAC TYK2 degradation agent1 (degrader 37) (1 μM; 6 h) selectively suppresses TYK2 protein levels^[1].
 PROTAC TYK2 degradation agent1 has TYK2 degradation activity with DC₅₀ value of 14 nM^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.
 Western Blot Analysis^[1]

Cell Line:	Jurkat cells
Concentration:	1 μM

Incubation Time:	6 h
Result:	Suppressed TYK2 protein levels and effectively induced the degradation of TYK2 in a dose-dependent manner at a low concentration range, with TYK2 degradation slightly decreasing at high concentrations.

REFERENCES

[1]. Jun-Ya Kato, et al. Discovery of a potent and subtype-selective TYK2 degrader based on an allosteric TYK2 inhibitor. *Bioorg Med Chem Lett*. 2023 Jan 1;79:129083.

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

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