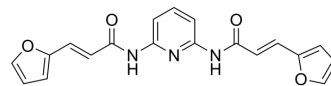


TT-012

Cat. No.:	HY-156483		
CAS No.:	1164471-33-3		
Molecular Formula:	C ₁₉ H ₁₅ N ₃ O ₄		
Molecular Weight:	349.34		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (286.25 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.8625 mL	14.3127 mL	28.6254 mL
		5 mM	0.5725 mL	2.8625 mL	5.7251 mL
		10 mM	0.2863 mL	1.4313 mL	2.8625 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (7.16 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (7.16 mM); Clear solution; Need ultrasonic 				

BIOLOGICAL ACTIVITY

Description	TT-012 specifically binds to dynamic MITF and destroys the latter's dimer formation and DNA-binding ability. TT-012 inhibits the transcriptional activity of MITF in B16F10 melanoma cells. TT-012 inhibits the growth of high-MITF melanoma cells, and inhibits the tumor growth and metastasis with tolerable toxicity to liver and immune cells in animal models ^[1] .
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REFERENCES

[1]. Liu Z, et al. A unique hyperdynamic dimer interface permits small molecule perturbation of the melanoma oncoprotein MITF for melanoma therapy. Cell Res. 2023 Jan;33(1):55-70.

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

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