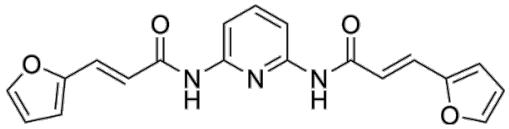
Product Data Sheet

Product Name: TT-012
Cat. No.: GC73650

Chemical Properties

Cas. No.	1164471-33-3		
Formula	$C_{19}H_{15}N_3O_4$	M.Wt	349.34
Solubility	DMSO : 100 mg/mL (286.25 mM; Need ultrasonic)	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

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.

References:

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