

Product Data Sheet

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

Chemical Properties

Cas. No. 1164471-33-3

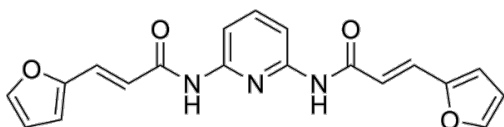
Formula $C_{19}H_{15}N_3O_4$ M.Wt 349.34

Solubility DMSO : 100 mg/mL (286.25 mM; Storage -20°C
Need ultrasonic)

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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

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