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**Product Data Sheet**

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Product Name: GGTI-2154

Cat. No.: GC62633

**Chemical Properties**

Cas. No. 251577-10-3

Formula  $C_{24}H_{28}N_4O_3$  M.Wt 420.5

Solubility Storage Store at -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**

GGTI-2154 is a potent and selective inhibitor of geranylgeranyltransferase I (GGTase I), with an IC<sub>50</sub> of 21 nM. GGTI-2154 shows more than 200-fold selectivity for GGTase I over FTase (IC<sub>50</sub>=5600 nM). GGTI-2154 can be used for the research of cancer[1][2].

GGTI-2154 inhibits the transfer of geranylgeranyl from [3H]GGPP to H-Ras CVLL, with an IC<sub>50</sub> of 21 nM[1].

GGTI-2154 (100 mg/kg/day; s.c. for 14 days) induces breast tumor regression in MMTV-N-Ha-Ras transgenic mice[2]. GGTI-2154 (50 mg/kg/day; i.p. for 50 day) inhibits A-549 tumor growth in nude mice by 60%[1].

[1]. Sun J, et, al. Antitumor efficacy of a novel class of non-thiol-containing peptidomimetic inhibitors of farnesyltransferase and geranylgeranyltransferase I: combination therapy with the cytotoxic agents cisplatin, Taxol, and gemcitabine. *Cancer Res.* 1999 Oct 1;59(19):4919-26.

[2]. Sun J, et, al. Geranylgeranyltransferase I inhibitor GGTI-2154 induces breast carcinoma apoptosis and tumor regression in H-Ras transgenic mice. *Cancer Res.* 2003 Dec 15;63(24):8922-9.

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

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