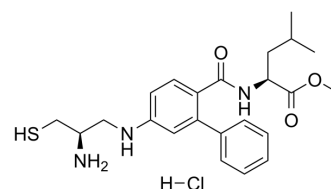


## GGTI-286 hydrochloride

<b>Cat. No.:</b>	HY-117935
<b>CAS No.:</b>	181141-66-2
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>32</sub> ClN <sub>3</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	466.04
<b>Target:</b>	Ras
<b>Pathway:</b>	GPCR/G Protein
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	GGTI-286 hydrochloride, a potent GGTase I inhibitor, is 25-fold more potent (IC <sub>50</sub> =2 μM) than the corresponding methyl ester of FTI-276 (HY-15873A). GGTI-286 hydrochloride selectively inhibits geranylgeranylation of Rap1A over farnesylation of H-Ras in NIH3T3 cells (IC <sub>50</sub> s =2 and >30 μM, respectively). GGTI-286 hydrochloride also potently inhibits oncogenic K-Ras4B stimulation with an IC <sub>50</sub> of 1 μM <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 2 μM (Geranylgeranylation of Rap1A) in NIH3T3 cells <sup>[1]</sup>

### REFERENCES

- [1]. E C Lerner, et al. Disruption of oncogenic K-Ras4B processing and signaling by a potent geranylgeranyltransferase I inhibitor. *J Biol Chem.* 1995 Nov 10;270(45):26770-3.
- [2]. Naoyuki Nishiya, et al. A zebrafish chemical suppressor screening identifies small molecule inhibitors of the Wnt/β-catenin pathway. *Chem Biol.* 2014 Apr 24;21(4):530-540.

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

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