

## Product Data Sheet

Product Name: NCGC00249987

Cat. No.: GC61403

### Chemical Properties

Cas. No. 1384864-80-5

SMILES FC1=CC=CC(C(N/N=C/C(O2)=CC=C2SC3=NC=CC=N3)=O)=C1

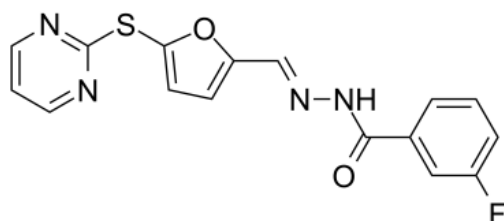
Formula  $C_{16}H_{11}FN_4O_2S$  M.Wt 342.35

Solubility DMSO: < 1 mg/mL (insoluble or slightly soluble) 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

NCGC00249987 is a highly selective and allosteric Tyr phosphatase activity of Eya2 inhibitor with IC<sub>50</sub>s of 3 μM and 6.9 μM for Eya2 ED and MBP-Eya2 FL. NCGC00249987 specifically targets migration, invadopodia formation, and invasion of lung cancer cells[1].

NCGC00249987 inhibits Eya2 ED (C-terminal Eya Domain). NCGC00249987 inhibits full length Eya2 including but not other Eya family members[1]. NCGC00249987 binding leads to a conformational

**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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change of the active site that is unfavorable for Mg<sup>2+</sup> binding, thereby inhibiting Eya2's Tyr phosphatase activity[1]. NCGC00249987 (5, 10  $\mu$ M) treatment effectively suppresses migration, invadopodia formation and invasion in Eya2 WT expressing Calu-6 cells, but not in EV Calu-6 cells. NCGC00249987 does not inhibit cell growth or survival[1].

[1]. Anantharajan J, et al. Structural and Functional Analyses of an Allosteric EYA2 Phosphatase Inhibitor That Has On-Target Effects in Human Lung Cancer Cells. Mol Cancer Ther. 2019 Sep;18(9):1484-1496.

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