

Product Data Sheet

Product Name: ZG-2686
Cat. No.: GC79670

Chemical Properties

Cas. No. 1795110-22-3

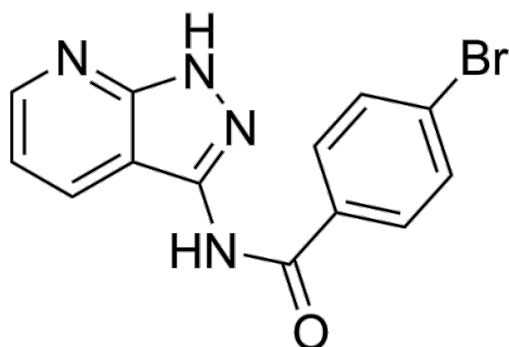
Formula $C_{13}H_9BrN_4O$ M.Wt 317.14

Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

ZG-2686 is a potent and selective HIF-2 α agonist with an EC₅₀ of 0.25 μM . ZG-2686 exhibits selectivity over PHD2. ZG-2686 binds to a specific internal cavity of HIF-2 α , forming hydrogen bonds via structural water molecules, which stabilizes the HIF-2 α / β heterodimer and enhances transcriptional activity. ZG-2686 synergizes with Vadadustat to upregulate HIF-2 α -dependent EPO gene expression both in vitro and in vivo. ZG-2686 can be used for the research of renal anemia [1].

In Vivo, ZG-2686 (10 and 20 mg/kg; i.p.; single dose) shows limited in vivo EPO induction alone but synergizes with Vadadustat to enhance EPO expression in C57BL/6 mice [1].

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

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In Vitro, ZG-2686 demonstrates good in vitro metabolic stability in rat plasma and liver microsomes^[1]. ZG-2686 (10-20 μ M; 12 h) shows a synergistic upregulation of HIF-2 α -dependent EPO mRNA level in Hep3B cells when combined with Vadadustat^[1].

References:

[1]. Gao Y, et al. Discovery of 3-(Arylamido)pyrazolopyridine HIF-2 α Agonists and a Codrug Strategy with Prolyl Hydroxylase Inhibition for Synergistic Treatment of Renal Anemia. J Med Chem. 2025;68(23):25569-25589.

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