

Product Datasheet

GN44028

Catalog No. **BP-01887** · CAS **1421448-26-1** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-04**

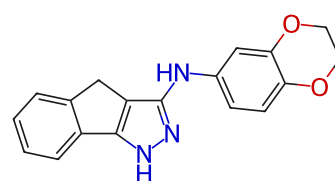
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Target HIF/HIF Prolyl-Hydroxylase	Research area Cancer
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Molecular formula **C₁₈H₁₅N₃O₂**

Molecular weight **305.3306**

STRUCTURE



DESCRIPTION

GN44028 is a potent and orally active hypoxia inducible factor (HIF)-1 α inhibitor, with an IC₅₀ of 14 nM. GN44028 inhibits hypoxia-induced HIF-1 α transcriptional activity without suppressing HIF-1 α mRNA expression, HIF-1 α protein accumulation, or HIF-1 α /HIF-1 β heterodimerization. GN44028 can be used in the research of cancers.

BIOLOGICAL ACTIVITY

In Vitro

GN44028 (compound 2I, 0-30 μ M approximately) has anti-proliferative activities against HCT116, HepG2 and HeLa cells.

GN44028 (0.001-1 μ M, 4 h) inhibits the hypoxia-induced VEGF mRNA expression in HeLa cells.

GN44028 (20 nM, 10 days) abrogates the TGF- β -induced colony formation in HCT116 cells.

In Vivo

GN44028 (10 mg/kg, oral gavage) extends the survival rate of animals in mice bearing a mixed orthotopic tumor with PN12 and ME23 cells.

GN44028 (5 mg/kg, tail vein injection, twice a week) suppresses tumor growth in a subcutaneous colorectal cancer model.

SOLUBILITY

Soluble in DMSO : 50 mg/mL

REFERENCES

[1]. Minegishi H, et al. Discovery of Indenopyrazoles as a New Class of Hypoxia Inducible Factor (HIF)-1 Inhibitors. ACS Med Chem Lett. 2013 Jan 27;4(2):297-301.

[2]. Changfu Liu, et al. Tumor-associated macrophage-derived transforming growth factor- β promotes colorectal cancer progression through HIF1-TRIB3 signaling. *Cancer Sci.* 2021 Oct;112(10):4198-4207.

[3]. Xiaoqing Fan, et al. Heterogeneity of subsets in glioblastoma mediated by Smad3 palmitoylation. *Oncogenesis.* 2021 Oct 27;10(10):72.

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