# PRODUCT INFORMATION

## GN44028

*Item No. 37289*

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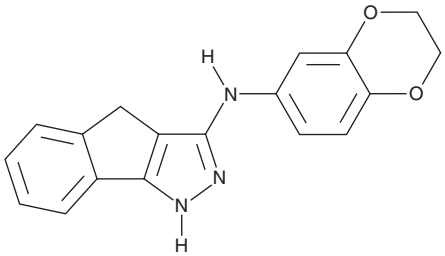
|---|---|
| **CAS Registry No.:** | 1421448-26-1 |
| **Formal Name:** | N-(2,3-dihydro-1,4-benzodioxin-6-yl)-1,4-dihydro-indeno[1,2-c]pyrazol-3-amine |
| **MF:** | $C_{18}H_{15}N_3O_2$ |
| **FW:** | 305.3 |
| **Purity:** | ≥98% |
| **UV/Vis.:** | $\lambda_{max}$: 264 nm |
| **Supplied as:** | A solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |



*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

GN44028 is supplied as a solid. A stock solution may be made by dissolving the GN44028 in the solvent of choice, which should be purged with an inert gas. GN44028 is soluble in methanol.

### Description

GN44028 is an inhibitor of HIF-1α transcriptional activity.[1] It reduces HIF-1α reporter gene expression in HeLa cervical cancer cells ($IC_{50}$ = 14 nM). GN44028 induces cytotoxicity in HCT116 colorectal, HepG2 hepatic, PC3 prostate, and HeLa cancer cells ($IC_{50}$s = 2.1, 3.7, 25.4, and 2.1 µM, respectively). It reduces the levels of VEGF, but not HIF-1α or HIF-1α-HIF-1β dimer levels, in HeLa cells when used at concentrations of 0.1 and 1 µM. *In vivo*, GN44028 (5 mg/kg twice per week), alone or in combination with 5-fluorouracil (Item. No. 14416), decreases tumor volume and the number of lung metastases and increases survival percentage in a CT26 murine colon cancer model.[2]

### References


1. Minegishi, H., Fukashiro, S., Ban, H.S., *et al.* Discovery of indenopyrazoles as a new class of hypoxia inducible factor (HIF)-1 inhibitors. *ACS Med. Chem. Lett.* **4(2)**, 297-301 (2013).
2. Liu, C., Zhang, W., Wang, J., *et al.* Tumor-associated macrophage-derived transforming growth factor-β promotes colorectal cancer progression through HIF1-TRIB3 signaling. *Cancer Sci.* **112(10)**, 4198-4207 (2021).





**CAYMAN CHEMICAL**
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
**PHONE:** [800] 364-9897
[734] 971-3335
**FAX:** [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM