



**Xcess Biosciences Inc.**

7144 N Harlem Ave #169  
Chicago, IL 60631 USA

<http://www.xcessbio.com>

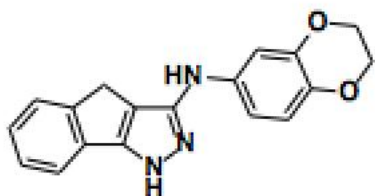
Toll free: 1-866-706-2330

Fax: 1-619- 810-0718

Email: [info@xcessbio.com](mailto:info@xcessbio.com)

## HIF-1 $\alpha$ Inhibitor – GN44028

**Chemical Name:** N-(2,3-dihydrobenzo[b][1,4]dioxin-6-yl)-1,4-dihydroindeno[1,2-c]pyrazol-3-amine



Molecular Weight:	305.33
Formula:	C <sub>18</sub> H <sub>15</sub> N <sub>3</sub> O <sub>2</sub>
Purity:	≥98%
CAS#:	1421448-26-1
Solubility:	DMSO up to 100 mM EtOH up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

### Biological Activity:

GN44028 is potent and selective HIF-1 $\alpha$  inhibitor with IC<sub>50</sub> ~14 nM. It inhibits hypoxia-induced HIF-1 $\alpha$  transcriptional activity without suppressing HIF-1 $\alpha$  mRNA expression, HIF-1 $\alpha$  protein accumulation, or HIF-1 $\alpha$ /HIF-1 $\beta$  heterodimerization in nuclei under the hypoxic conditions. This suggests that GN44028 probably affected the transcriptional pathway induced by the HIF-1 $\alpha$ /HIF-1 $\beta$  heterodimer.

### How to Use:

**In vitro:** GN44028 was used at 1-10  $\mu$ M in vitro and cellular assays.

**In vivo:** n/a

### Reference:

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

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