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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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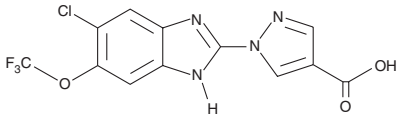
PRODUCT INFORMATION

JNJ-42041935

Item No. 14316

CAS Registry No.: 1193383-09-3
Formal Name: 1-[6-chloro-5-(trifluoromethoxy)-1H-benzimidazol-2-yl]-1H-pyrazole-4-carboxylic acid
Synonym: HIF-PHD Inhibitor II
MF: $C_{12}H_6ClF_3N_4O_3$
FW: 346.7
Purity: ≥98%
UV/Vis.: λ_{max}: 252, 302 nm
Supplied as: A crystalline 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

JNJ-42041935 is supplied as a crystalline solid. A stock solution may be made by dissolving the JNJ-42041935 in the solvent of choice, which should be purged with an inert gas. JNJ-42041935 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of JNJ-42041935 in these solvents is approximately 10, 30, and 25 mg/ml, respectively.

JNJ-42041935 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, JNJ-42041935 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. JNJ-42041935 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

JNJ-42041935 is a selective, 2-OG competitive, and reversible inhibitor of HIF-PH enzymes (K_is = 12.3, 51.3, and 22.4 nM for HIF-PH1, HIF-PH2, and HIF-PH3, respectively).[1] It is >100-fold selective for HIF-PH compared to the related FIH (factor-inhibiting HIF) and a panel of various other enzymes.[1] In an inflammation-induced anemia model in rats, 100 µM/kg/day JNJ-42041935 significantly increased the number of circulating reticulocytes and red blood cells, increased blood hemoglobin and hematocrit, and restored mean corpuscular volume and mean cell hemoglobin of red bloods cells.[1]

Reference

1. Barrett, T.D., Palomino, H.L., Brondstetter, T.I., *et al.* Pharmacological characterization of 1-(5-chloro-6-(trifluoromethoxy)-1H-benzoimidazol-2-yl)-1H-pyrazole-4-carboxylic acid (JNJ-42041935), a potent and selective hypoxia-inducible factor prolyl hydroxylase inhibitor. *Mol. Pharmacol.* **79(6)**, 910-920 (2011).

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