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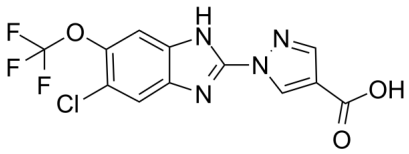
Certificate of Analysis

Catalog Number	BP13957
Product Name	JNJ-42041935

Physical and Chemical Properties

Synonyms	HIF-PHD Inhibitor II
CAS No.	1193383-09-3
Chemical Formula	C12H6ClF3N4O3
Molecular Weight	346.65
Solubility	DMSO: 36 mg/mL
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	JNJ-42041935 is a potent (pKi = 7.3-7.9), 2-oxoglutarate competitive, reversible, and selective inhibitor of PHD enzymes.

In vitro	JNJ-42041935 is the most potent inhibitor of PHD2181–417 with a pIC50 value of 7.0±0.03. JNJ-42041935 also inhibits full-length PHD1, PHD2, and PHD3 enzymes (pKi values 7.91±0.04, 7.29 ±0.05, and 7.65±0.09, respectively) .
In vivo	JNJ-42041935 is used to compare the effect of selective inhibition of PHD to intermittent, high doses (50 μg/kg i.p.) of an exogenous erythropoietin receptor agonist in an inflammation induced anemia model in rats. JNJ-42041935 (100 μmol/kg, once a day for 14 days) is effective in reversing inflammation induced anemia, whereas erythropoietin has no effect. Administration of JNJ-42041935 (100 μmol/kg p.o.) for 5 consecutive days resulted in a 2-fold increase in reticulocytes, an increase in hemoglobin by 2.3 g/dl, and an increase in the hematocrit of 9%. Two hours after oral administration of 300 μmol/kg JNJ-42041935, the bioluminescence over the peritoneal area is increased by 2.2 ± 0.3-fold relative to luciferase-treated vehicle controls in the mouse .

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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v2 Revision on 12/28/2022