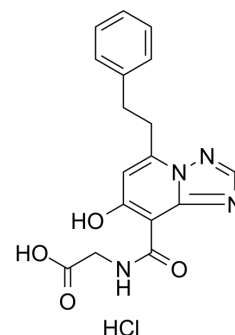


## Enarodustat hydrochloride

<b>Cat. No.:</b>	HY-109057A
<b>CAS No.:</b>	1262131-60-1
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>17</sub> ClN <sub>4</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	376.79
<b>Target:</b>	HIF/HIF Prolyl-Hydroxylase
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Enarodustat hydrochloride is a potent and orally active HIF/HIF Prolyl-Hydroxylase inhibitor, with an EC <sub>50</sub> of 0.22 μM. Enarodustat hydrochloride has the potential for renal anemia treatment.
<b>IC<sub>50</sub> &amp; Target</b>	pKi : 8.2 (5-HT <sub>2A</sub> receptor), 8.0 (D <sub>4</sub> receptor), 6.7 (D <sub>2</sub> receptor), 7.2 (α <sub>1</sub> receptor), 6.9 (5-HT <sub>2C</sub> receptor), 5.7 (H <sub>1</sub> receptor) <sup>[1]</sup>
<b>In Vitro</b>	Enarodustat hydrochloride (JTZ-951) is a potent and orally active hypoxia-inducible factor prolyl hydroxylase inhibitor, with an EC <sub>50</sub> of 0.22 μM. Enarodustat hydrochloride exhibits neither CYP (IC <sub>50</sub> > 100 μM; CYP3A4/5, CYP2C9, CYP2D6, CYP1A2, CYP2A6, CYP2C19, CYP2C8, CYP2B6) nor hERG (IC <sub>50</sub> > 100 μM) inhibition <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Enarodustat hydrochloride (1 and 3 mg/kg, p.o.) increases hemoglobin levels in a dose-dependent manner with daily oral dosing in rats <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- ACS Omega. August 29, 2022.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

[1]. Ogoshi Y, et al. Discovery of JTZ-951: A HIF Prolyl Hydroxylase Inhibitor for the Treatment of Renal Anemia. ACS Med Chem Lett. 2017 Nov 20;8(12):1320-1325.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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