## PF-07059013

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-139293 2435610-93-6 C <sub>19</sub> H <sub>16</sub> FN <sub>5</sub> O <sub>2</sub> 365.36 Others Others Please store the product under the recommended conditions in the Certificate of	F N NH2 N N NH2 N N O
	Analysis.	

BIOLOGICAL ACTIVITY				
DIOLOGICAL ACTIVITY				
Description	PF-07059013 is an orally active and potent noncovalent modulator of sickled hemoglobin (HbS). PF-07059013 specifically binds to Hb with nanomolar affinity and displays strong partitioning into red blood cells (RBCs). PF-07059013 can be used for sickle cell disease (SCD) research <sup>[1][2]</sup> .			
In Vivo	PF-07059013 (10-490 mg/kg, Oral gavage, twice daily, for 2 weeks) shows reduction in sickling in Townes SCD mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	Townes SCD mice (8-10 weeks old, male) <sup>[1]</sup>		
	Dosage:	10, 40, 200, and 490 mg/kg		
	Administration:	Oral gavage, twice daily, for 2 weeks		
	Result:	Showed a 37.8% (±9.0%) reduction in sickling at 200 mg/kg compared to vehicle treated mice.		

## REFERENCES

[1]. Gopalsamy A, et al. PF-07059013: A Noncovalent Modulator of Hemoglobin for Treatment of Sickle Cell Disease. J Med Chem. 2021 Jan 14;64(1):326-342.

[2]. Aaron Baldwin, et al. Route Optimization of the Non-covalent Modulator of Hemoglobin PF-07059013 for the Treatment of Sickle Cell Disease, Part I: From Discovery Synthesis to First Kilogram-Scale Manufacture. Org. Process Res. Dev. 2023.

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

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**Product** Data Sheet

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