

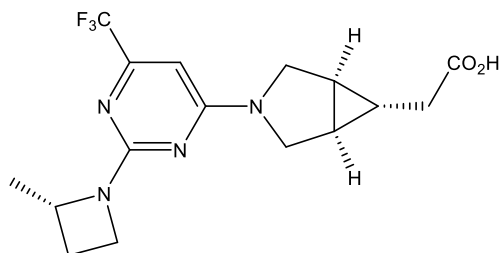
**Catalog #10-3958**

**PF-06835919**

CAS# 2102501-84-6

2-[(1*R*,5*S*)-3-[2-[(2*S*)-2-methylazetidin-1-yl]-6-(trifluoromethyl)pyrimidin-4-yl]-3-azabicyclo[3.1.0]hexan-6-yl]acetic acid

Lot # FBS10051



PF-06835919 is a potent (IC<sub>50</sub> = 10 nM KHK-C; 170 nM KHK-A) inhibitor of ketohexokinase (KHK), the first enzyme in the fructose metabolic cascade.<sup>1</sup> It displayed high selectivity against other sugar kinases. PF-06835919 prevented hyperinsulinemia, hypertriglyceridemia, and hepatic steatosis in fructose-fed rats.<sup>2</sup> The increased tumor proliferation effect of fructose in CaSki cells was inhibited by PF-06835919.<sup>3</sup> An interesting new tool to study metabolic and fatty liver diseases.

- 1) Futatsugi *et al.* (2020), *Discovery of PF-06835919: A Potent Inhibitor of Ketohexokinase (KHK) for the Treatment of Metabolic Disorders Driven by the Overconsumption of Fructose*; J. Med. Chem. **63** 13546
- 2) Gutierrez *et al.* (2021), *Pharmacologic inhibition of ketohexokinase prevents fructose-induced metabolic dysfunction*; Mol. Metab. **48** 101196
- 3) Fowle-Girder *et al.* (2024), *Dietary fructose enhances tumour growth indirectly via interorgan lipid transfer*; Nature **636** 737

**PHYSICAL DATA**

Molecular Weight:	356.35
Molecular Formula:	C <sub>16</sub> H <sub>19</sub> F <sub>3</sub> N <sub>4</sub> O <sub>2</sub>
Purity:	>98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (10 mg/mL with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

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