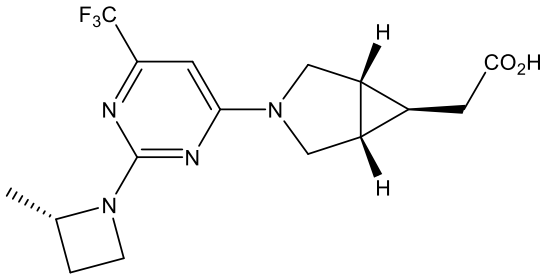
Catalog #10-3958

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 # FBS4051



PF-06835919 is a potent (IC_{50} = 10 nM KHK-C; 170 nM KHK-A) inhibitor of ketohexokinase (KHK), the first enzyme in the fructose metabolic cascade.[1] It displayed high selectivity against other sugar kinases. PF-06835919 prevented hyperinsulinemia, hypertriglyceridemia, and hepatic steatosis in fructose-fed rats.[2] The increased tumor proliferation effect of fructose in CaSki cells was inhibited by PF-06835919.[3] 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-Grider *et al*. (2024), *Dietary fructose enhances tumour growth indirectly via interorgan lipid transfer*; Nature **636** 737

PHYSICAL DATA

Molecular Weight:	356.35
Molecular Formula:	$C_{16}H_{19}F_3N_4O_2$
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.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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