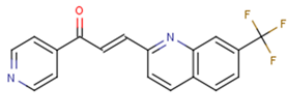
Product Name	:	PFK-158
Synonyms	:	PFK158; PFK 158; PFK158; ACTPFK158
Cat No.	:	M17311
CAS Number	:	1462249-75-7
Molecular Formula	:	C18H11F3N2O
Formula Weight	:	328.29
Chemical Name	:	(E)-1-(pyridin-4-yl)-3-(7-(trifluoromethyl)quinolin-2-yl)prop-2-en-1-one
Description	:	PFK-158, also known as ACT-PFK-158, is an inhibitor of 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatases (PFK-2/FBPase) isoform 3 (PFKFB3) with potential antineoplastic activity. Upon administration, PFKFB3 inhibitor PFK-158 binds to and inhibits the activity of PFKFB3, which leads to the inhibition of both the glycolytic pathway in and glucose uptake by cancer cells. This prevents the production of macromolecules and energy that causes the enhanced cellular proliferation in cancer cells as compared to that of normal, healthy cells. Depriving cancer cells of nutrients and energy leads to the inhibition of cancer cell growth.
Pathway	:	Cell Cycle/DNA Damage
Target	:	GPR
Receptor	:	PFKFB3
Solubility	:	DMSO : ≥ 30 mg/mL; 91.38 mM
SMILES	:	c12c(ccc(n1)C(F)(F)F)ccc(c2)/C=C/C(=O)c1ccncc1
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



1. Rebecca Redman, et al. Y Res August 1, 2015 75; CT206.