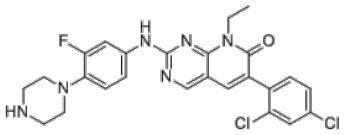
ProbeChem®
Expedite Your Scientific Research

Data Sheet

WWW.PROBECHEM.COM

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name : FRAX486
Cat. No. : PC-73199
CAS No. : 1232030-35-1
Molecular Formula : $C_{25}H_{23}Cl_2FN_6O$
Molecular Weight : 513.4
Target : p21-activated Kinase (PAK)
Solubility : 10 mM in DMSO



Biological Activity

FRAX486 is potent, selective, brain-penetrant **group I PAKs** inhibitor with IC50 of 8.25, 39.5, and 55.3 nM for PAK1, PAK2 and PAK3, respectively.
FRAX486 poorly inhibits group II PAK (PAK4) with IC50 of 779 nM.
FRAX486 rescued increased density of apical dendritic spines, reversed hyperactivity and repetitive behaviors in Fmr1 KO mice.
FRAX486 ameliorateed adolescent synapse loss in the prefrontal cortex and adult behavior change in a DISC1 knockdown mouse model.
FRAX486 combined with midostaurin significantly prolonged leukemia progression-free survival in FLT3 D835H PDX-ALL model.

References

Hayashi-Takagi A, et al. ***Proc Natl Acad Sci U S A.*** 2014 Apr 29;111(17):6461-6.

Dolan BM, et al. ***Proc Natl Acad Sci U S A***. 2013 Apr 2;110(14):5671-6.

Wang Y, et al. ***PLoS One***. 2016 Apr 12;11(4):e0153312.

Siekmann IK, et al. ***Blood Adv***. 2018 Oct 9;2(19):2554-2567.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com