

PF4618433

SYN-1163

1-(3-(tert-butyl)-1-(p-tolyl)-1H-pyrazol-5-yl)-3-(3-((pyridin-3-yloxy)methyl)-1H-pyrazol-5-yl)urea

CAS Registry No.: 1166393-85-6

Smiles String:

Cc1ccc(cc1)n2c(cc(n2)C(C)(C)C)NC(=O)Nc3cc(n[nH]3)COc4cccnc4

Molecular Weight: 445.52

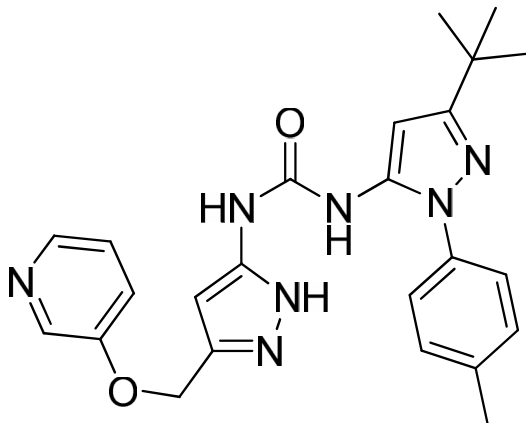
Molecular Formula: C₂₄H₂₇N₇O₂

Lot Number: Refer to vial

¹H-NMR: Available on request

HPLC (Purity): > 95.0% @ 254 nm

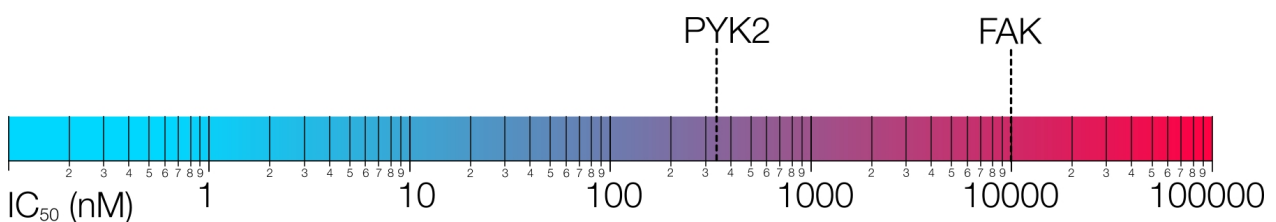
ES-MS: Available on request



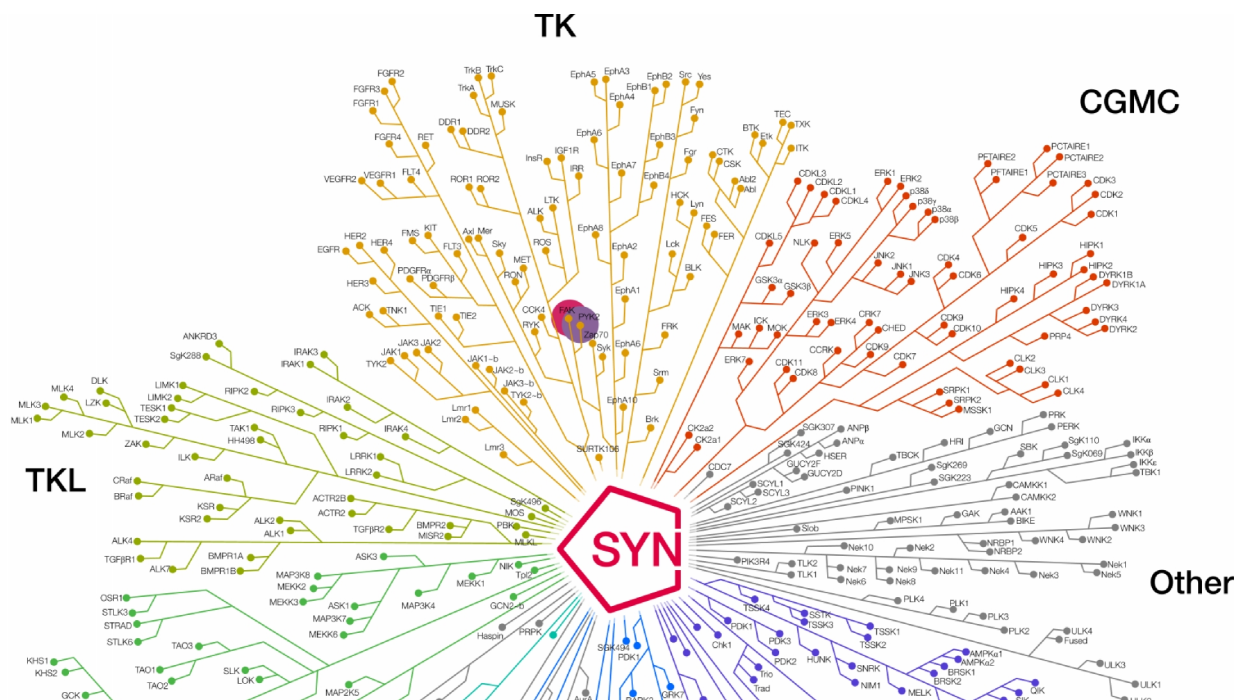
Description:

PF-4618433 shows improved PYK2 potency, reduced p38 activity, and superior overall selectivity relative to the prototype BIRB796. In the functional osteogenesis assays, cultures treated with increasing concentrations of PF-4618433 starting at day 1 and maintained throughout showed a dose-dependent increases in both alkaline phosphatase activity and mineralization.

Biological Activity



Kinome Mapping



Shipping and Storage Temperature

Shipping:
Ambient

Storage:
2 years -20C, Powder 1 month, -4C in DMSO, More than one month -80C in DMSO

Solubility

20 mM in DMSO

Preparing Stock Solutions

Stock Solution (1ml DMSO)	1mM	10mM	20mM	50mM
Mass(mg)	0.4455	4.4552	8.9104	22.2760

References

1. Han S, Mistry A, Chang JS, Cunningham D, Griffor M, Bonnette PC, Wang H, Chrnyk BA, Aspnes GE, Walker DP, Brosius AD, Buckbinder L. Structural characterization of proline-rich tyrosine kinase 2 (PYK2) reveals a unique (DFG-out) conformation and enables inhibitor design. J Biol Chem. 2009 May 8;284(19):13193-201. doi: 10.1074/jbc.M809038200. Epub 2009 Feb 25. PubMed PMID: 19244237; PubMed Central PMCID: PMC2676051.

Ordering Information

To order more of this or any other SYNkinase compound, go to synkinase.com, Call us Toll Free (US Only) at 1- 877-854-6273 or email orders@synkinase.com.

Product Datasheet (Rev. 1.1)