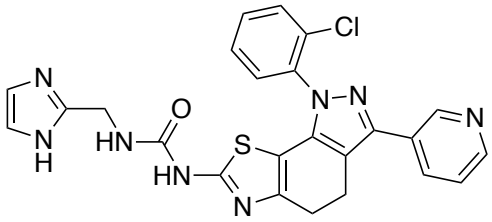
PIP4K2C



BI00048423

Chemical Name: 1-((1*H*-imidazol-2-yl)methyl)-3-(1-(2-chlorophenyl)-3-(pyridin-3-yl)-4,5-dihydro-1*H*-thiazolo[4,5-*g*]indazol-7-yl)urea

CHEBI: 156469

Smile String:
ClC1=CC=CC=C1N2N=C(C3=CC=CN=C3)C4=C2C5=C(CC4)N=C(NC(NCC6=NC=CN6)=O)S5

Chemical Formula: $C_{24}H_{19}ClN_8OS$

Molecular Weight: 502.98

cLogP: 2.257

Source: KCGS

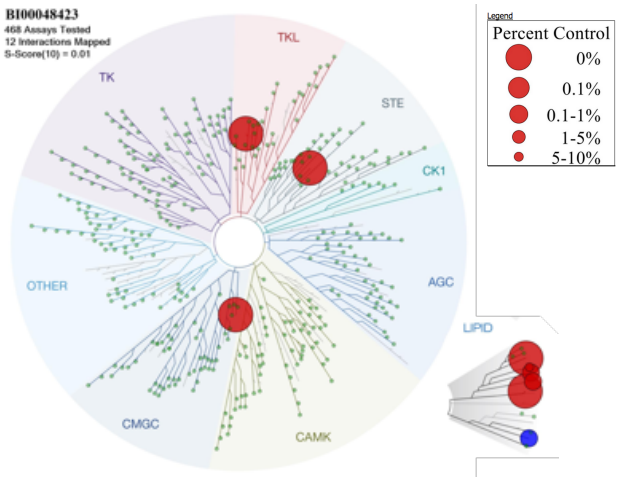
Reference: Wells, C. I.; *et al*. "The Kinase Chemogenomic Set (KCGS): An open science resource for kinase vulnerability identification" *BioRxiv* 2019, DOI: https://doi.org/10.1101/2019.12.22.886523

Biochemical profiling

DiscoverX (403 wild-type human kinases)

S_{10} (1 μM) = 0.02 (8 kinases < 10% control)

PI4K2C K_d = 5 nM



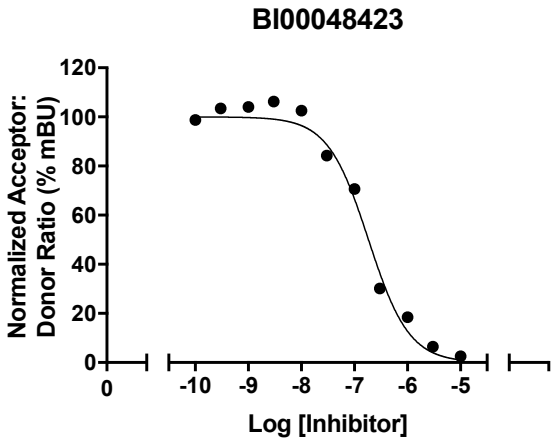
Kinase	%Inh @ 1 μM
ICK	0
MYO3A	0
PIK3CG	0
PIK4CB	0
RIPK4	0
PIK3C2G	2.2
PIP5K2C	3.2
VPS34	4.8

List of kinases inhibited <10% control at 1 μM

Cellular target engagement in HEK293 cells

PIP4K2C-NLuc (C term)

PIP4K2C IC_{50} = 185 nM



Cellular target engagement of BI00048423 with PIP4K2C