

VER-246608, Pan-PDK inhibitor

Catalog	Unit
TBI4224-5MG	5 mg
TBI4224-25MG	25 mg

Product Details

Formal Name: N-[4-(2-chloro-5-methylpyrimidin-4-yl)phenyl]-N-[[4-[[[(2,2-difluoroacetyl)amino]methyl]phenyl]methyl]-2,4-dihydroxybenzamide

Molecular Formula: C₂₈H₂₃ClF₂N₄O₄

Formula Weight: 553.0

CAS Number: 1684386-71-7

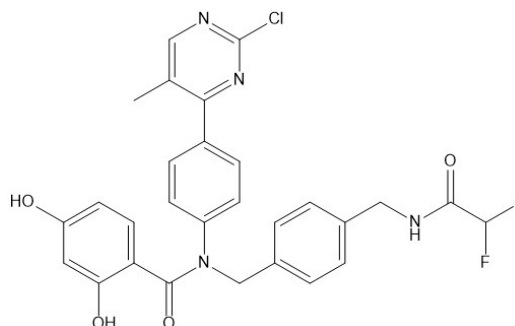
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (> 25 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

Pan-PDK inhibitor

Functions

Potent (IC₅₀'s: PDK-1 = 35 nM, PDK-2 = 84 nM, PDK-3 = 40 nM, PDK-4 = 91 nM) and selective pan-pyruvate dehydrogenase kinase inhibitor. It decreased oxygen consumption and attenuated glycolytic activity (Warburg metabolism) under D-glucose/L-glutamine-depleted conditions. VER-246608 treatment of four cancer lines (PC-3, SW-1088, UM-22B, and MEF) under depleted D-glucose/L-glutamine conditions resulted in almost complete inhibition of cell growth. It also acted synergistically with doxorubicin in PC-3 and ES-2 cells.

Application Procedures

First dissolved in Soluble in DMSO (> 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.