

Product Name : WNK inhibitor 11

Synonyms : WNK-IN-11; WNK IN 11; WNKIN11; WNK inhibitor 11;
WNK inhibitor-11;

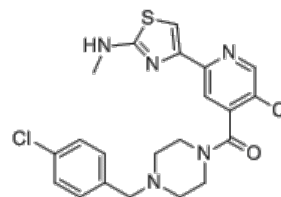
Cat No. : M13376

CAS Number : 2123489-30-3

Molecular Formula : C₂₁H₂₁Cl₂N₅O₂S

Formula Weight : 462.39

Chemical Name : (5-chloro-2-(2-(methylamino)thiazol-4-yl)pyridin-4-yl)(4-(4-chlorobenzyl)piperazin-1-yl)methanone



Description : WNK inhibitor 11 is a potent, selective and orally active inhibitor of WNK1 kinase with IC₅₀ of 6 nM, 1,000-fold selectivity over WNK4 and 57-fold selectivity over WNK2; shows excellent selectivity with only a few significant off-target kinase inhibitions, most notably BTK and FER kinase; reduces blood pressure in mice overexpressing human WNK1, and induced diuresis, natriuresis and kaliuresis in spontaneously hypertensive rats.

Pathway : Autophagy

Target : WNK Kinase

Receptor : WNK Kinase

Solubility : DMSO : 150 mg/mL 324.39 mM; H₂O : < 0.1 mg/mL

SMILES : O=C(C1=CC(=C(C=C1)C(=N2C(=NC(=N2)NC)S2)N)N3CCN(CC4=CC=C(Cl)C=C4)CC3

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Yamada K, et al. ACS Chem Biol. 2016 Dec 16;11(12):3338-3346.