

Product Name	: GNE-3511
Synonyms	: GNE3511; GNE 3511
Cat No.	: M12076
CAS Number	: 1496581-76-0
Molecular Formula	: C ₂₃ H ₂₆ F ₂ N ₆ O
Formula Weight	: 440.49
Chemical Name	: 4-Pyridinecarbonitrile, 2-[[6-(3,3-difluoro-1-pyrrolidinyl)-4-[1-(3-oxetanyl)-4-piperidinyl]-2-pyridinyl]amino]-
Description	: GNE-3511 is a potent, selective, orally bioavailable, brain-penetrant dual leucine zipper kinase (DLK, MAP3K12) inhibitor with <i>K_i</i> of <0.5 nM, displays >100-fold selectivity over MKK4/7, JNK1/2/3, MLK1/2/3; inhibits p-JNK with IC ₅₀ of 30 nM, displays concentration-dependent protection of neurons from degeneration in vitro (DRG IC ₅₀ =107 nM) and demonstrates dose-dependent activity in multiple animal models of neurodegenerative disease.
Pathway	: MAPK/ERK Signaling
Target	: MEK
Receptor	: DLK; MAP3K12
Solubility	: DMSO: ≥ 32 mg/mL
SMILES	: <chem>N#CC1=CC(NC2=NC(N3CC(F)(F)CC3)=CC(C4CCN(C5COC5)CC4)=C2)=NC=C1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Patel S, et al. J Med Chem. 2015 Jan 8;58(1):401-18.

