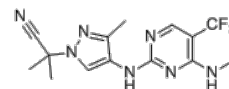


Product Name : DNL201
Cat. No. : PC-38909
CAS No. : 1374828-69-9
Molecular Formula : C₁₄H₁₆F₃N₇
Molecular Weight : 339.326
Target : LRRK2
Solubility : 10 mM in DMSO



Biological Activity

DNL201 (GNE0877) is a first-in-class, CNS-penetrant, selective, ATP-competitive, small-molecule LRRK2 kinase inhibitor with IC₅₀ of 3 nM.

DNL201 inhibited LRRK2 kinase activity by reduced phosphorylation of both LRRK2 at serine-935 (pS935) and Rab10 at threonine-73 (pT73), a direct substrate of LRRK2.

DNL201 demonstrated improved lysosomal function in cellular models of disease, including primary mouse astrocytes and fibroblasts from patients with Gaucher disease.

DNL201 shows the potential to correct lysosomal dysfunction in patients with Parkinson's disease (PD) in clinical investigations.

References

Jennings D, et al. Sci Transl Med. 2022 Jun 8;14(648):eabj2658.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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