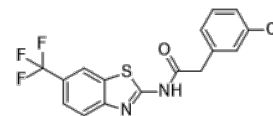


Product Name : IGS-2.7
Cat. No. : PC-25908
CAS No. : 1579991-01-7
Molecular Formula : C₁₆H₁₀ClF₃N₂OS
Molecular Weight : 370.77
Target : Casein Kinase
Solubility : 10 mM in DMSO



CAS: 1579991-01-7

Biological Activity

IGS-2.7 is a potent, selective and brain permeable CK1delta (CK-1δ, CK1δ) inhibitor with IC₅₀ of 23 nM, >35-fold selective over CK1ε (IC₅₀=840 nM).

IGS-2.7 decreases TDP-43 phosphorylation and nuclear localization using a cell-based model of human lymphoblast from FTD patients carrying a progranulin (GRN) mutation.

IGS-2.7 produces a significant preservation of motor neurons in the anterior horn at lumbar level, a decrease in both astroglial and microglial reactivity in this area, and in TDP-43 phosphorylation in spinal cord samples.

IGS-2.7 recovered TDP-43 homeostasis (phosphorylation and localization) in a human-based cell model from ALS patients.

References

Martínez-González L, et al. Sci Rep. 2020 Mar 10;10(1):4449.

Gomez-Almeria M, et al. Neuropharmacology. 2025 Dec 11:110804.

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

E-mail: tech@probechem.com