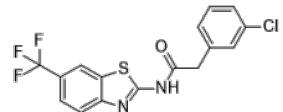

Product Name	:	IGS-2.7
Cat. No.	:	PC-25908
CAS No.	:	1579991-01-7
Molecular Formula	:	C ₁₆ H ₁₀ ClF ₃ N ₂ OS
Molecular Weight	:	370.77
Target	:	Casein Kinase
Solubility	:	10 mM in DMSO



CAS: 1579991-01-7

Biological Activity

IGS-2.7 is a potent, selective and brain permeable CK1delta (CK-1 δ , CK1 δ) inhibitor with IC₅₀ of 23 nM, >35-fold selective over CK1 ϵ (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!

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