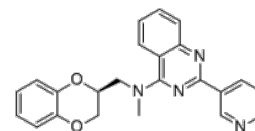


Product Name : S-181
Cat. No. : PC-73111
CAS No. : 2270984-21-7
Molecular Formula : C₂₃H₂₀N₄O₂
Molecular Weight : 384.439
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

S-181 (S 181) is a specific small-molecule activator (modulator) of **β-glucocerebrosidase (GCase)** with AC₅₀ of 1.49 μM and a maximum activation of 780%.

S-181 displays no effect in vitro enzyme activity of the lysosomal enzymes acid α-glucosidase and α-galactosidase A.

S-181 (5 to 25 μM) is sufficient to increase wild-type GCase activity in iPSC-derived dopaminergic neurons.

S-181 partially rescues pathogenic phenotypes in GBA-PD iPSC-derived dopaminergic neurons.

S-181 lowers oxidized dopamine and α-synuclein in non-GBA1-linked PD patient iPSC-derived dopaminergic neurons.

S-181 lowers lipid substrate and α-synuclein accumulation in wild-type (Gba1+/+) and Gba1D409V/+ mutant mice.

References

Burbulla LF, et al. *Sci Transl Med*. 2019 Oct 16;11(514). pii: eaau6870.

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

E-mail: tech@probechem.com