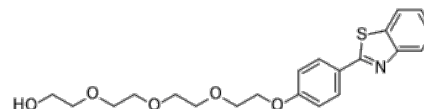


Product Name : Tazbentetol
Cat. No. : PC-27508
CAS No. : 2274723-90-7
Molecular Formula : C₂₁H₂₅NO₅S
Molecular Weight : 403.49
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Tazbentetol (SPG302) is a pegylated benzothiazole derivative and **synaptic regenerative** small molecule, targets the cytoskeleton and induces the formation of new glutamatergic synapses.

SPG302 administration ameliorates visual dysfunction, significantly improves retinal ganglion cell (RGC) function and conduction in db/db mice.

SPG302 administration preserves optic nerve myelination in db/db mice.

SPG302 administration preserved synapses in the retina of db/db mice.

SPG302 administration inhibits glial activation in the retina of db/db mice, inhibits apoptotic cell death in the retina.

SPG302 demonstrates therapeutic potential for inner retina protection and preservation of visual function in Diabetic retinal neuropathy (DRN).

SPG302 protects retinal ganglion cells and preserves visual function by preserving synaptic activity in a mouse model of glaucoma.

References

Bastola T, et al. *Exp Eye Res.* 2025 Dec;261:110640.

Trujillo-Estrada L, et al. *Neurotherapeutics.* 2021 Oct;18(4):2468-2483.

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

E-mail: tech@probechem.com