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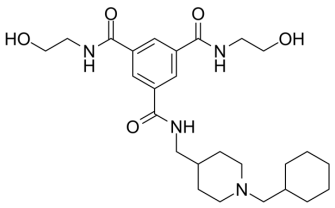
ENT-C225

Cat. No.:	HY-152472
CAS No.:	2919962-53-9
Molecular Formula:	$C_{26}H_{40}N_4O_5$
Molecular Weight:	488.62
Target:	Trk Receptor
Pathway:	Neuronal Signaling; Protein Tyrosine Kinase/RTK
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	ENT-C225 is an effective activator of TrkB neurotrophin receptor. ENT-C225 has high effect on activating TrkB receptor (TrkBR), and has good physicochemical properties and neuroprotective properties[1].
In Vitro	ENT-C225 (Compound 10) (1 μM; 24 h) significantly improves NIH-3T3 TrkB cytotoxicity and reduces cell mortality[1]. ENT-C225 (1 μM; 20 min) promotes TrkB receptor phosphorylation in NIH-3T3 TrkB cells and primary astrocytes[1]. ENT-C225 (500 pM-1 μM; 48 h) has significant neuroprotective effect and enhances in a dose-dependent manner. ENT-C225 promoting the accumulation of TAR DNA-binding protein 43 (TDP43) in the neural network and cytoplasm of spinal motor neurons[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Antonijevic M, et al. Design, synthesis and biological characterization of novel activators of the TrkB neurotrophin receptor. Eur J Med Chem. 2023 Feb 15;248:115111.

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