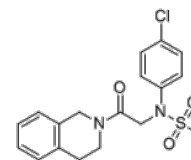


Product Name : TKDC
Cat. No. : PC-60942
CAS No. : 425666-42-8
Molecular Formula : C₁₈H₁₉ClN₂O₃S
Molecular Weight : 378.871
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

TKDC is a small molecule allosteric inhibitor of **TREK channels** with IC₅₀ of 4.9, 5.2 and 65.9 μM for TREK-1, TREK-2 and TRAAK, respectively.

TKDC maintains potency for mutant TREK-1 channels with IC₅₀ of 2.4, 2.4 and 2.2 μM for T79A TREK-1, Q83A TREK-1 and Q105A TREK-1, respectively.

TKDC decreases immobility and induces antidepressant-like effects in mice.

References

Luo Q, et al. *Nat Commun.* 2017 Aug 29;8(1):378.

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

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