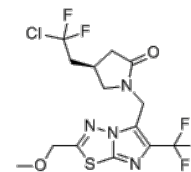


Product Name : Padsevonil
Cat. No. : PC-35479
CAS No. : 1294000-61-5
Molecular Formula : C₁₄H₁₄ClF₅N₄O₂S
Molecular Weight : 432.794
Target : Other Targets
Solubility : 10 mM in DMSO



3. Wood M, et al. J Pharmacol Exp Ther. 2020.
 PMID: 31619465

Biological Activity

Padsevonil (UCB0942) is an antiepileptic drug (AED) candidate with high affinity for synaptic vesicle 2 (**SV2**) proteins with pK_i of 8.5/7.9/8.5 for SV2A/SV2B/SV2C, respectively.

Padsevonil (UCB0942) displayed low to moderate affinity (pIC₅₀≤6.1) for the benzodiazepine site of recombinant GABAA receptors.

Padsevonil (UCB0942) exhibited SV2A occupancy at low ED₅₀ (0.2 mg/kg) and benzodiazepine site occupancy at higher doses (ED₅₀ 36 mg/kg) in in vivo (mice) receptor occupancy studies.

Padsevonil (UCB0942) is a first-in-class AED candidate with a unique target profile allowing for presynaptic and postsynaptic activity.

References

Serrano E, et al. F1000Prime Rep. 2015 May 26;7:61.

Zaccara G, et al. Pharmacol Res. 2016 Feb;104:38-48.

