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Product Datasheet

FSC-231 FBM-10-1406

Article Name	FSC-231
Biozol Catalog Number	FBM-10-1406
Supplier Catalog Number	10-1406
Alternative Catalog Number	FBM-10-1406-5MG, FBM-10-1406-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	PICK1 PDZ domain inhibitor...
Molecular Weight	313.14
Purity	98% by TLC, NMR (Conforms)
Form	Yellow solid
Formula	C13H10Cl2N2O3

Application Notes

The first small-molecule inhibitor of the PDZ domain in protein interacting with C kinase 1 (PICK1). Binds to PICK1 PDZ domain with affinity similar to that of the endogenous peptide ligands ($K_i \sim 10.1 \mu M$). Does not bind to PDZ domains of postsynaptic density protein 95 (PSD-95) nor glutamate receptor interacting protein 1 (GRIP1). Pretreatment of cultured hippocampal neurons inhibits coimmunoprecipitation of the AMPA receptor GluR2 subunit with PICK1. FSC231 accelerated recycling of fluorophore-tagged GluR2 in hippocampal neurons after internalization in response to NMDA receptor activation. Blocks the expression of both long-term depression and long-term potentiation.^{1,2} Attenuates cocaine seeking in a rodent model.³ Blocks PICK1-induced anti-inflammatory effect in acute liver injury.⁴