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Product Datasheet

Heclin, CAS [[890605-54-6]]

FBM-10-1534

Article Name	Heclin, CAS [[890605-54-6]]
Biozol Catalog Number	FBM-10-1534
Supplier Catalog Number	10-1534
Alternative Catalog Number	FBM-10-1534-5MG, FBM-10-1534-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	HECT domain containing E3 ubiquitin ligase inhibitor...
Molecular Weight	283.33
Purity	98% by TLC, NMR (Conforms)
Form	Beige solid
CAS Number	[890605-54-6]
Formula	C17H17NO3

Application Notes

The first small molecule inhibitor of the HECT domain-containing E3 ubiquitin ligases. Heclin (HECT ligase inhibitor) inhibits several HECT ligases in cultured cells, IC50s = 6.8, 6.3 and 6.9 M for Smurf2, Nedd4 and WWP1 respectively. It does not block E2 binding but causes a conformational change which results in oxidation of the active site cysteine. Cells tolerate heclin treatment for several hours but exposure for 24 hours leads to death in HEK293 cells, consistent with an essential role for HECT ligase activity in mammalian cells. Heclin does not inhibit RING domain ligases.¹ Thus it is a valuable tool for distinguishing between RING and HECT-mediated ubiquitination. Prevents proteasomal degradation of thioredoxin-interacting protein after microbial infection with subsequent reduction of pro-inflammatory mediators.² Improves short-term memory, consolidation, retrieval and reconsolidation of contextual fear in rodent models.³