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Product Datasheet

Indisulam, CAS [[165668-41-7]] FBM-10-3927

Artikelname	Indisulam, CAS [[165668-41-7]]
Artikelnummer	FBM-10-3927
Hersteller Artikelnummer	10-3927
Alternativnummer	FBM-10-3927-5MG, FBM-10-3927-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	RBM39 Molecular glue...
Molekulargewicht	385.84
Reinheit	>98% by HPLC , NMR (Conforms)
Formulierung	Off-white solid
CAS Nummer	[165668-41-7]
Formel	C14H12CIN3O4S2

Anwendungsbeschreibung	Indisulam was originally described as a potent antitumor agent that targeted the G1 phase of cell cycle via suppression of activation of CDK2 and cyclin E expression.¹ More recently it has been found to act as a molecular glue promoting the recruitment of RNA binding motif protein 39 (RBM39) to the CUL4-DCAF15 E3 ubiquitin ligase leading to proteasomal degradation.² Removal of splicing factor RBM39 leads to altered RNA splicing and death in multiple cancer cell lines - Indisulam alters the expression of more than 3000 genes and causes widespread intron retention and exon skipping.³ It induced metabolome perturbations and mitochondrial dysfunction in neuroblastoma models leading to complete tumor regression without relapse.⁴ Arginine has been found to bind to RBM39 causing reprogramming of metabolic genes to promote tumor growth - indisulam treatment leading to RBM39 degradation mimics arginine depletion resulting in reduced growth in patient-derived hepatocellular carcinoma organoids.⁵
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