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Product Datasheet

RITA, CAS [[213261-59-7]] FBM-10-3385

Article Name	RITA, CAS [[213261-59-7]]
Biozol Catalog Number	FBM-10-3385
Supplier Catalog Number	10-3385
Alternative Catalog Number	FBM-10-3385-5MG,FBM-10-3385-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	p53 activator...
Molecular Weight	292.37
Purity	98% by TLC NMr (Conforms)
Form	Yellow solid
CAS Number	[213261-59-7]
Formula	C14H12O3S2
Application Notes	RITA (reactivation of p53 and induction of tumor cell apoptosis) binds to p53 ($K_d = 1.5 \text{ nM}$), changing its conformation, preventing it from binding to HDM2 (human ortholog of MDM2, Mouse Double-Minute clone 2), and targeting it for proteasomal degradation. ¹ It also weakly (computed $K_d = 22 \text{ }\mu\text{M}$) binds HDM2 in the cleft that contacts the p53 transactivation domain. ² Its restoration of mutant p53 function depends on eIF2alpha phosphorylation, and it induces apoptosis via p53-dependent and -independent (JNK/SAPK/p38, protein translation) pathways. ³⁻⁵ Induces senescence in head and neck cancer cells. ⁶