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Product Datasheet

NU7441 FBM-10-4810

Article Name	NU7441
Biozol Catalog Number	FBM-10-4810
Supplier Catalog Number	10-4810
Alternative Catalog Number	FBM-10-4810-5MG,FBM-10-4810-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	DNA-PK inhibitor...
Molecular Weight	413.49
Purity	98% by TLC NMR (Conforms)
Form	Off-white to beige solid
CAS Number	[503468-95-9]
Formula	C25H19NO3S
Application Notes	NU7441 is a potent ($IC_{50} = 13 \text{ nM}$) and selective ATP-competitive inhibitor of DNA-dependent protein kinase (DNA-PK). ^{1,2} It increased the toxicity of ionizing radiation and etoposide on SW620 human colon cancer lines via impeding DNA double-strand break repair. ³ NU7441 also increased the radio/chemosensitivity of various other cancer cell lines. ³⁻⁶ Reduces the frequency of NHEJ repair while enhancing the rate of HDR repair following CRISPR/Cas9-mediated gene editing. ⁷