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Product Datasheet

PK11007, CAS [[874146-69-7]]

FBM-10-4176

Article Name	PK11007, CAS [[874146-69-7]]
Biozol Catalog Number	FBM-10-4176
Supplier Catalog Number	10-4176
Alternative Catalog Number	FBM-10-4176-5MG, FBM-10-4176-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Reactivator of mutant p53...
Molecular Weight	427.85
Purity	>98% by HPLC NMR (Conforms)
Form	White solid
CAS Number	[874146-69-7]
Formula	C15H11ClFN5O3S2
Application Notes	PK11007 reactivates mutant p53 via selective alkylation of two cysteine residues without compromising DNA-binding ability. ¹ p53 target genes p21 and PUMA were activated by treatment with PK11007. Mutant p53-containing cancer cells were more sensitive to PK11007 than wild-type with mutant cells showing greatly reduced viability. It also generated high levels of reactive oxygen species and induced ER stress in a p53-independent (and dependent on glutathione depletion) manner that resulted in cell death. PK11007 inhibited cellular proliferation, induced apoptosis, and blocked cell migration in a panel of 17 breast cancer lines including triple-negative breast cancer (IC50s: 2.3 to 42.2 μ M). ²