
Product Name	: ReACp53	NH ₂ -RRRRRRRRRRRIPILTRITILE-COOH
Cat. No.	: PC-72590	
CAS No.	:	
Molecular Formula	: C ₁₀₈ H ₂₀₆ N ₅₂ O ₂₄	
Molecular Weight	: 2617.13	
Target	: MDM2-p53	
Solubility	: 10 mM in DMSO (26.2 mg/mL)	

Biological Activity

ReACp53 is a cell-penetrating 17-residue peptide designed to inhibit **p53** amyloid formation, rescues **p53** function in cancer cell lines.

ReACp53 inhibits p53 aggregation in primary cells from HGSOC patients, and re-localizes p53 to the nucleus in an active conformation.

ReACp53 induces cancer cell death, cell cycle arrest and results in p53 degradation.

ReACp53 induces rapid cell death in human primary uterine fibroblasts transfected with a dominant negative R175H p53 mutant grown in 3D.

ReACp53 specifically affects cell viability and proliferation of cancer cells bearing mutant p53 but not wild type when grown as organoids.

ReACp53 causes regression of xenografts bearing an aggregation-prone p53 mutant in HGSOC xenograft models.

ReACp53 is well tolerated, causes regression of intraperitoneal disseminated tumors in vivo.

References

Soragni A, et al. *Cancer Cell*. 2016 Jan 11; 29(1):90-103.

Neal A, et al. *Cancers (Basel)*. 2021 Nov 24;13(23):5908.

Zhang Y, et al. *Oncogene*. 2017 Sep 28;36(39):5473-5483.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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