

tumor protein p53 binding protein fragment [Homo sapiens]/[Mus musculus]

Chemical Properties

CAS No. :

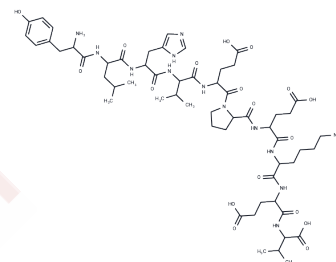
Formula: C57H87N13O18

Molecular Weight: 1242.38

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Tumor protein p53 binding protein (53BP1) has been identified in a yeast two-hybrid screen as a protein that interacts with the central DNA-binding domain of p532. Similar to breast cancer susceptibility gene 13, 4 (BRCA1; 53BP1 enhances p53-dependent transcription5. Interestingly, the COOH terminus of 53BP1 contains tandem BRCA1 COOH terminus (BRCT) motifs.
Targets(IC50)	Others
In vitro	53BP1 becomes hyperphosphorylated and rapidly relocates to the sites of DNA strand breaks in response to ionizing radiation. 53BP1 foci formation is reduced in ATM-deficient cells and can be inhibited by wortmannin in ATM wild-type cells. Moreover, radiation-induced hyperphosphorylation of 53BP1 is absent in cells treated with wortmannin, as well as in ATM-deficient cells. 53BP1 participates in DNA damage-signaling pathways and is regulated by ATM after γ -radiation6.

Solubility Information

Solubility	DMSO: ≥ 124.2 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8049 mL	4.0245 mL	8.0491 mL
5 mM	0.161 mL	0.8049 mL	1.6098 mL
10 mM	0.0805 mL	0.4025 mL	0.8049 mL
50 mM	0.0161 mL	0.0805 mL	0.161 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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