

p53 tumor suppressor fragment

Chemical Properties

CAS No. :

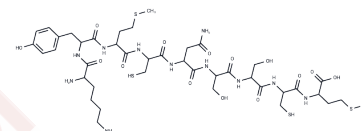
Formula: C41H67N11O14S4

Molecular Weight: 1066.3

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	p53 tumor suppressor fragment (232-240) is a peptide with the sequence H2N-Lys-Tyr-Met-Cys-Asn-Ser-Ser-Cys-Met-OH, MW= 1066.3. p53 is a tumor suppressor protein that in humans is encoded by the TP53 gene. p53 is crucial in multicellular organisms, where it regulates the cell cycle and, thus, functions as a tumor suppressor that is involved in preventing cancer.
Targets(IC50)	Others
In vitro	p53 has been described as 'the guardian of the genome' because of its role in conserving stability by preventing genome mutation. p53 has many mechanisms of anticancer function and plays a role in apoptosis, genomic stability, and inhibition of angiogenesis. In its anti-cancer role, p53 works through several mechanisms: It can activate DNA repair proteins when DNA has sustained damage. It can induce growth arrest by holding the cell cycle at the G1/S regulation point on DNA damage recognition. It can initiate apoptosis, the programmed cell death if DNA damage proves to be irreparable [1][2][3].

Solubility Information

Solubility	DMSO: ≥53.3 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	0.9378 mL	4.6891 mL	9.3782 mL
5 mM	0.1876 mL	0.9378 mL	1.8756 mL
10 mM	0.0938 mL	0.4689 mL	0.9378 mL
50 mM	0.0188 mL	0.0938 mL	0.1876 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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