

Colletofragarone A2

Chemical Properties

CAS No. :	181377-06-0
Formula:	C ₂₂ H ₂₆ O ₆
Molecular Weight:	386.44
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Colletofragarone A2, isolated from the fungus Colletotrichum sp. (13S020), exhibits anti-cancer activity by inhibiting mutant p53 and HSP90. It promotes the degradation and aggregation of mutant p53, in turn suppressing tumor growth in vivo [1].
Targets(IC50)	Others,HSP,MDM-2/p53
In vitro	Colletofragarone A2 exhibits selective cytotoxicity towards cells harboring p53 R175H structural mutants, displaying higher efficacy than against other p53 variants, such as DNA-contact mutants, wild-type, or null p53 cells (0.05-5 µM; 72 h). It effectively reduces mutant p53 levels by facilitating its degradation in SK-BR-3 cells with the p53 R175H mutation (2 µM; 8 h). Furthermore, when combined with MG-132 (10 µM), Colletofragarone A2 induces the accumulation of aggregated mutant p53 at concentrations of either 2 or 4 µM over 4 hours.
In vivo	Colletofragarone A2, administered intratumorally at 0.35 mM and 100 µL daily for 13 days, significantly reduces tumor growth in mice inoculated with HuCCT1 cells harboring the p53 R175H mutation [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5877 mL	12.9386 mL	25.8772 mL
5 mM	0.5175 mL	2.5877 mL	5.1754 mL
10 mM	0.2588 mL	1.2939 mL	2.5877 mL
50 mM	0.0518 mL	0.2588 mL	0.5175 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

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