

D-myo-Inositol-1,3,4,5,6-pentaphosphate ammonium salt

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	D-myo-Inositol-1,3,4,5,6-pentaphosphate (ammonium salt) [Ins(1,3,4,5,6)P5 (ammonium salt)] is an isomer of inositol phosphate that functions as a small, soluble second messenger in cellular signaling. It can bind to the PH domain of Grp1 with a dissociation constant (Kd) of 590 nM. This compound inhibits the phosphorylation and kinase activity of Akt/PKB, leading to apoptosis in ovarian, lung, and breast cancer cells. Additionally, it exhibits anti-angiogenic activity in vitro, blocking capillary formation by HUVECs, and demonstrates antitumor effects in cancer xenograft models in nude mice.
Targets(IC50)	Akt

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