[Ala92]-p16 (84-103)
Kinase Inhibitor

E1KP1077

Kinase Inhibitor Name: [Ala92]-p16 (84-103)

Catalog Number: E1KP1077

Quantity: 1mg

1. PHYSICAL AND CHEMICAL PROPERTIES

M.W.:	2123.44
Formula:	$C_{95}H_{159}N_{31}O_{28}$
Solubility:	Soluble to 2 mg/ml in sterile water
Purity:	>99%
Storage:	at -20℃ 2 years
CAS No.:	189064-08-2

Molecular Structure:

Asp-Ala-Ala-Arg-Glu-Gly-Phe-
Leu-Ala-Thr-Leu-Val-Val-Leu-
His-Arg-Ala-Gly-Arg.AcOH

2. Biological Activity

[Ala92]-p16 (84-103) is a peptide derived from the tumor suppressor protein p16. [Ala92]-p16 (84-103) can bind to cdk6. The aberrant p16 RNA transcripts encoded key peptides (amino acids 84-103) involved in binding with cyclin-dependent kinase (CDK) 4. GST-aberrant p16 fusion proteins were found to interact with endogenous CDK4 in vitro. Furthermore, overexpression of these aberrant p16 RNA transcripts resulted in decreased cell proliferation rate, enlargement of cell shape and reduced level of hyperphosphorylated forms of pRb. [1][2]

3. References:

Characterization of the cyclin-dependent kinase inhibitory domain of the INK4 family as a model for a synthetic tumour suppressor molecule Robin Fahraeus, Sonia Laõn,et al. Oncogene 1998;16:587-596

Abereant p16INK4A RNA transcripts expressed in hepatocellular carcinoma cell lines regulate pRb phosphorylation by binding with CDK4, resulting in delayed cell cycle progression Cho J-W, Jeong Y-W,et al. Liver International 2003;23:194-200

The pharmacological and toxicological properties of this product have not been fully investigated. Exercise caution in use and handling. This product must not be used in humans.