

## Arg-Gly-Asp-Ser acetate

## Chemical Properties

CAS No. :

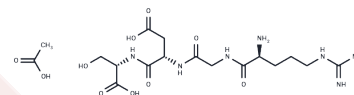
Formula: C17H31N7O10

Molecular Weight: 493.47

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	Arg-Gly-Asp-Ser acetate is an integrin binding sequence that directly and specifically bind pro-caspase-8, pro-caspase-9 and pro-caspase-3, while it does not bind pro-caspase-1. Arg-Gly-Asp-Ser acetate inhibits integrin receptor function.
Targets(IC50)	Integrin
In vitro	<p>The RGDS-modified surface caused up-regulation of alpha(v)beta(3) integrin. Attachment to the RGDS-treated membrane completely abolished apoptosis induced by staurosporine, the Ca(2+).P(i) ion pair, and sodium nitroprusside. When the activity of the phosphatidylinositol 3-kinase pathway was inhibited, RGDS-dependent resistance to apoptosis was eliminated. These results indicated that the binding of cells to RGDS abrogated apoptosis via the mitochondrial pathway and that the suppression of apoptosis was dependent on the activity of phosphatidylinositol 3-kinase. RGDS interacts with survivin, as well as with procaspase-3, -8 and -9.</p> <p>Survivin, a known cell-cycle and survival-regulator is highly expressed in melanoma cells. RGDS-peptide binding to survivin was found to be specific, at high affinity (Kd 27.5 μM) and located at the survivin C-terminus. RGDS-survivin interaction appeared to play a key role, since RGDS lost its anti-mitogenic effect in survivin-deprived cells with a specific siRNA.</p>
In vivo	Saline or LPS (1.5 mg/kg) was administered i.t. with or without a single dose of RGDS (1, 2.5, or 5 mg/kg, i.p.), anti-alpha(v) or anti-beta3 mAb (5 mg/kg, i.p.). Mice were sacrificed 4 or 24 h post-LPS.

## Solubility Information

Solubility	DMSO: Slightly soluble H2O: 5 mg/mL (10.13 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.0265 mL	10.1323 mL	20.2647 mL
5 mM	0.4053 mL	2.0265 mL	4.0529 mL
10 mM	0.2026 mL	1.0132 mL	2.0265 mL
50 mM	0.0405 mL	0.2026 mL	0.4053 mL

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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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