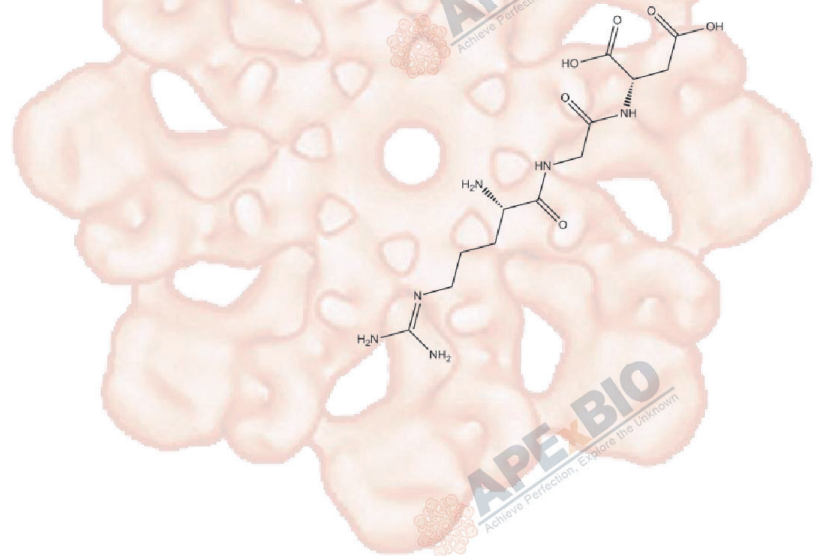


# Product Data Sheet

## RGD (Arg-Gly-Asp) Peptides

<b>Cat. No.:</b>	B3708
<b>CAS No.:</b>	99896-85-2
<b>Formula:</b>	C <sub>12</sub> H <sub>22</sub> N <sub>6</sub> O <sub>6</sub>
<b>M.Wt:</b>	346.34
<b>Synonyms:</b>	
<b>Target:</b>	Angiogenesis
<b>Pathway:</b>	Integrin
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

insoluble in DMSO; insoluble in EtOH;  $\geq 17.3$  mg/mL in H<sub>2</sub>O with gentle warming

In Vitro

Preparing Stock Solutions	Mass		1mg	5mg	10mg
	Solvent	Concentration			
		<b>1 mM</b>	2.8873 mL	14.4367 mL	28.8734 mL
		<b>5 mM</b>	0.5775 mL	2.8873 mL	5.7747 mL
		<b>10 mM</b>	0.2887 mL	1.4437 mL	2.8873 mL

Please refer to the solubility information to select the appropriate solvent

### Biological Activity

Shortsummary

Inhibits integrin binding to RGD motifs

IC<sub>50</sub> & Target

In Vitro

#### Cell Viability Assay

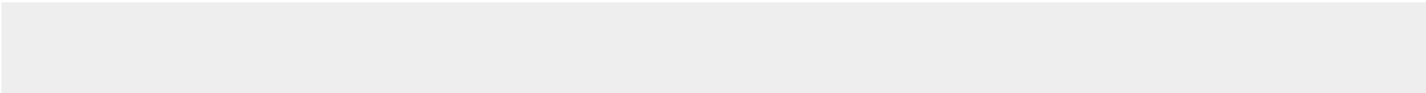
Cell Line: Lung fibroblasts

Preparation method: The solubility of this compound in DMSO is limited. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20 °C for several months.

Reacting conditions: 1 mM; 24 hrs

	Applications:	In lung fibroblasts, RGD peptides induced apoptosis and caspase-3 activation. Moreover, in both adherent and detached cells, RGD peptides resulted in pro-caspase-3 cleavage. Thus, RGD-containing peptides can induce apoptosis before the adherent cells detach from their substrates.
In Vivo	Animal experiment	
	Applications:	

## Product Citations



See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1]. Buckley CD, Pilling D, Henriquez NV, Parsonage G, Threlfall K, Scheel-Toellner D, Simmons DL, Akbar AN, Lord JM, Salmon M. RGD peptides induce apoptosis by direct caspase-3 activation. Nature. 1999 Feb 11;397(6719):534-9.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

*Specific storage and handling information for each product is indicated on the product datasheet. Most APEx BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.*



**APEx BIO Technology**  
[www.apexbt.com](http://www.apexbt.com)

7505 Fannin street, Suite 410, Houston, TX 77054.  
 Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)