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**Product Data Sheet**

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Product Name: Arg-Gly-Glu-Ser

Cat. No.: GC30052

**Chemical Properties**

Cas. No. 93674-97-6

SMILES Arg-Gly-Glu-Ser

Formula C<sub>16</sub>H<sub>29</sub>N<sub>7</sub>O<sub>8</sub> M.Wt 447.44

Solubility Water : 2 mg/mL (4.47 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Protocol****Animal experiment:**

Mice[1] Mouse pharyngeal aspiration is performed in the assay. Animals are anesthetized with a mixture of ketamine and xylazine (45 mg/kg and 8 mg/kg, i.p., respectively). Test solution (30 µL) containing LPS (1.5 mg/kg) is placed posterior in the throat and aspirated into the lungs. Control mice are administered sterile saline (0.9% NaCl). Animals are administered with RGDS or Arg-Gly-Glu-Ser peptide (1, 2.5 or 5 mg/kg, i.p.) once one hour before LPS treatment and sacrificed 4 h post-LPS. Animals are also administered RGDS or Arg-Gly-Glu-Ser peptide (5 mg/kg, i.p.) once at different time points (1 h before or 2 h after LPS treatment) and sacrificed 24 h post-LPS. In addition, animals are administered with αvβ3-blocking mAbs, anti-αv, or anti-β3 (5 mg/kg, i.p.) once 1 h before and sacrificed 4 h post-LPS. Animals administered with these mAbs 2 h after LPS treatment are sacrificed 24 h post-LPS[1].

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### References:

[1]. Moon C, et al.  
Synthetic RGDS  
peptide attenuates  
lipopolysaccharide-  
induced pulmonary  
inflammation by  
inhibiting integrin  
signaled MAP  
kinase pathways.  
Respir Res. 2009  
Mar 9;10:18.

### Background

Arg-Gly-Glu-Ser is a RGD-related peptide and a control for the RGDS inhibitory activity on fibrinogen binding to activated platelets.

Arg-Gly-Glu-Ser (5 mg/kg) in combination with LPS or saline + RGDS does not affect neutrophil and macrophage cell numbers and has no effect on protein accumulation compared with LPS- or saline-treated mice, respectively[1].

[1]. Moon C, et al. Synthetic RGDS peptide attenuates lipopolysaccharide-induced pulmonary inflammation by inhibiting integrin signaled MAP kinase pathways. Respir Res. 2009 Mar 9;10:18.

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