# Data Sheet (Cat.No.TP1974)

TargetMol

## Obtustatin

### Chemical Properties

CAS No. :

Formula: C184H284N52O57S8

Molecular Weight: 4393.07

Storage: Keep away from moisture
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 | Highly potent integrin α1β1 inhibitor (IC50 = 0.8 nM for α1β1 binding to type IV collagen). Selective for α1β1 over α2β1, αIIbβ3, αvβ3, α4β1, α5β6, α9β1 and α4β7. Inhibits FGF2-stimulated angiogenesis in the chicken chorioallantoic model. Displays antitumor efficacy in a synergistic mouse model of Lewis lung carcinoma; blocks human melanoma growth in nude mice. |
| Targets(IC50) | Integrin |

### Solubility Information

| | |
|---|---|
| Solubility | H2O: 1 mg/mL (0.23 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 0.2276 mL | 1.1382 mL | 2.2763 mL |
| 5 mM | 0.0455 mL | 0.2276 mL | 0.4553 mL |
| 10 mM | 0.0228 mL | 0.1138 mL | 0.2276 mL |
| 50 mM | 0.0046 mL | 0.0228 mL | 0.0455 mL |

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.

Reference

Moreno-Murciano et al (2003) Amino acid sequence and homology modeling of obtustatin, a novel non-RGD-containing short disintegrin isolated from the venom of Vipera lebetina obtusa. Protein Sci. 12 366 PMID:
Marcinkiewicz et al (2003) Obtustatin: a potent and selective inhibitor of α1β1 integrin in vitro and angiogenesis in vivo. Cancer Res. 63 2020 PMID:
Brown et al (2008) Angiostatic activity of obtustatin as α1β1 integrin inhibitor in experimental melanoma growth. Int.J.Cancer 123 2195 PMID: