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## Product Data Sheet

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Product Name: SEMBL  
Cat. No.: GC68141

### Chemical Properties

Cas. No. 1443448-82-5

Formula  $C_{12}H_{11}NO_4$

M.Wt 233.22

Solubility DMSO : 100 mg/mL (428.78 mM; Need ultrasonic) 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

### Background

SEMBL is a potent **NF-κB** inhibitor. SEMBL can inhibit NF-κB-DNA binding, and also inhibits NF-κB-dependent inflammatory cytokine secretions. SEMBL inhibits cancer cell migration and invasion via decreasing MMP expression. SEMBL can be used for researching anticancer<sup>[1]</sup>.

SEMBL inhibits MMP-2 expression and cellular metastatic activity in ovarian carcinoma cells<sup>[1]</sup>.

SEMBL inhibits the cell-free DNA binding of NF-κB in the ES-2 nuclear extract and inhibits the constitutively activated NF-κB activity in ovarian carcinoma cells<sup>[1]</sup>.

SEMBL inhibits cellular migration, invasion and MMP-2 expression in ovarian carcinoma cells at non-toxic concentrations<sup>[1]</sup>.

[1]. Umezawa K, et al. Inhibition of matrix metalloproteinase expression and cellular invasion by NF-κB inhibitors of microbial origin. *Biochim Biophys Acta Proteins Proteom.* 2020;1868(6):140412.

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

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