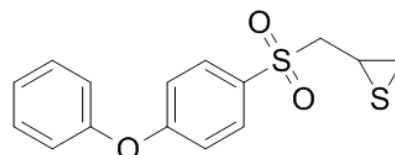


**Product Name** : SB-3CT  
**Cat. No.** : PC-42999  
**CAS No.** : 292605-14-2  
**Molecular Formula** : C<sub>15</sub>H<sub>14</sub>O<sub>3</sub>S<sub>2</sub>  
**Molecular Weight** : 306.3999  
**Target** : Matrix Metalloproteinase (MMP)  
**Solubility** : 10 mM in DMSO



## Biological Activity

SB-3CT is a potent, selective gelatinase inhibitor that dually inhibits **MMP2/9** with  $K_i$  of 13.9 and 600 nM, display little to no affinity for MMP-3, 7 and 1 ( $K_i$ =15, 96 and 206  $\mu$ M).

SB-3CT also poorly inhibits the closely related zinc-dependent metalloprotease ADAM-17.

SB-3CT demonstrates antitumor activity in a mouse model of T-cell lymphoma and shows significant reduction in the growth and number of experimental liver metastases and to an increase in survival.

SB-3CT blocks MMP-9 activity, including MMP-9-mediated laminin cleavage, thus rescuing neurons from apoptosis in transient focal cerebral ischemia

## References

Krüger A, et al. Cancer Res. 2005 May 1;65(9):3523-6.

Brown S, et al. Potent and Selective Mechanism-Based Inhibition of Gelatinases. J. Am. Chem. Soc., 2000, 122 (28), pp 6799-6800.

Gu Z, et al. J Neurosci. 2005 Jul 6;25(27):6401-8.

Bonfil RD, et al. Int J Cancer. 2006 Jun 1;118(11):2721-6.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com