

MMP-2/MMP-9 Inhibitor IV - CAS 292605-14-2 - Calbiochem The MMP-2/MMP-9 Inhibitor IV, also referenced under CAS 292605-14-2, controls the biological activity of MMP-2/MMP-9. This small molecule/inhibitor is primarily used for Protease Inhibitors applications.

Art. ID SAF-444274-500UG
Unit 1 x 500 µg
Deliverydetails No Dangerous Good /not restricted

Description

A potent, selective, slow-binding and mechanism-based inhibitor of human gelatinases, MMP-2 ($K_i = 13.9$ nM) and MMP-9 ($K_i = 600$ nM). It also exhibits a covalent mechanism based behavior in inhibition of these enzymes. This inhibitor appears to have similarity to TIMP-1 and TIMP-2 in the slow-binding component of inhibition. Shown to directly bind to the zinc in the catalytic site of MMP-2. Does not affect the activities of MMP-1 ($K_i = 206 \times 10^3$ M), MMP-3 ($K_i = 15 \times 10^3$ M), or MMP-7 ($K_i = 96 \times 10^3$ M). A potent, selective, slow-binding and mechanism-based inhibitor of human gelatinases, MMP-2 ($K_i = 13.9$ nM), and MMP-9 ($K_i = 600$ nM). This inhibitor appears to behave similarly to TIMP-1 and TIMP-2 in the slow-binding component of inhibition. Also exhibits a covalent mechanism-based behavior in inhibition of these enzymes. Binds directly to the catalytic zinc ion on MMP-2.

| Text/Information | Analyte/Parameter | CAS number | Concentration/Value | Unit | Method | Source |
|------------------|-------------------|---------------|---------------------|------|--------|--------|
| | SB-3CT | [292605-14-2] | | | | |