

Caspase-3/7 Inhibitor I - CAS 220509-74-0 - Calbiochem The Caspase-3/7 Inhibitor I, also referenced under CAS 220509-74-0, controls the biological activity of Caspase-3/7. This small molecule/inhibitor is primarily used for Cancer applications.

Art. ID SAF-218826-1MG

Unit 1 x 1 mg

Description

A potent, cell-permeable, and specific, reversible inhibitor of caspase-3 ($K_i = 60 \text{ nM}$) and caspase-7 ($K_i = 170 \text{ nM}$). A potent, reversible, isatin sulfonamide-based inhibitor of caspase-3 ($K_{I(\text{app})} = 60 \text{ nM}$) and caspase-7 ($K_{I(\text{app})} = 170 \text{ nM}$). Inhibits caspase-9 to a lesser extent ($K_{I(\text{app})} = 3.1 \text{ } \mu\text{M}$). Has only a trivial effect ($K_{I(\text{app})} > 25 \text{ mM}$) on the activities of caspase-1, caspase-2, caspase-4, caspase-6, and caspase-8. Reported to inhibit apoptosis in camptothecin treated Jurkat cells ($\text{IC}_{50} \sim 50 \text{ } \mu\text{M}$). Also reported to inhibit apoptosis in chondrocytes (44% inhibition at $10 \text{ } \mu\text{M}$ and 98% inhibition at $50 \text{ } \mu\text{M}$). Selectivity for caspases 3 and 7 involves unique hydrophobic residues in the S2 pocket surrounding the catalytic cysteine residue.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	5-[(S)-(+)-2-(Methoxymethyl)pyrrolidino]sulfonyleisatin	[220509-74-0]				