

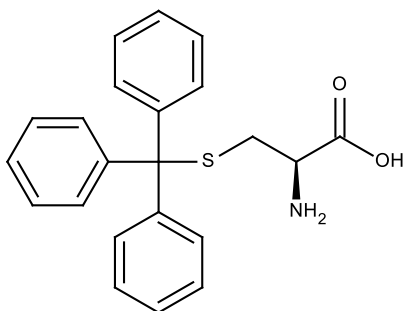
Catalog # 10-1042

S-Trityl-cysteine

CAS# 2799-07-7

(+)-S-Trityl-L-cysteine

Lot # X101733



S-Trityl-cysteine is a cell permeable inhibitor of mitotic kinesin Eg5 (IC₅₀ for inhibition of basal ATPase activity = 1 μM; IC₅₀ for inhibition of microtubule-activated ATPase activity = 140 nM). Mean growth concentration (GI₅₀) of 1.31 μM for a panel of 60 different tumor cell lines.

- 1) DeBonis *et al* (2004) *In vitro* screening for inhibitors of the human mitotic kinesin Eg5 with antimitotic and antitumour activities. *Mol.Cancer Ther.* **3** 1079
- 2) Brier *et al* (2004) *Identification of the protein binding region of S-trityl-L-cysteine, a new potent inhibitor of mitotic kinesin Eg5.* *Biochemistry* **43** 13072
- 3) Skoufias, *et al* (2006) *S-trityl-L-cysteine is a reversible, tight-binding inhibitor of the human kinesin eg5 that specifically blocks mitotic progression:* *J. Biol. Chem.* **281**, 17559

PHYSICAL DATA

Molecular Weight:	363.47
Molecular Formula:	C ₂₂ H ₂₁ NO ₂ S
Purity:	98% by TLC
	NMR: Conforms
Solubility:	DMSO (up to 20 mg/ml)
Physical Description:	White to off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO may be stored at -20°C for up to 1 week.

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