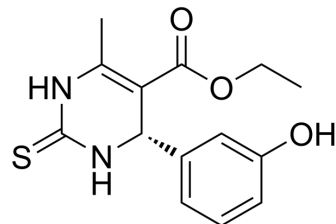


(S)-Monastrol

Cat. No.:	HY-101071
CAS No.:	254753-54-3
Molecular Formula:	C ₁₄ H ₁₆ N ₂ O ₃ S
Molecular Weight:	292.35
Target:	Kinesin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

(S)-Monastrol ((+)-Monastrol) is an allosteric inhibitor of the mitotic kinesin Eg5 that exhibits an antiproliferative effect against several cancer cell lines. (S)-Monastrol arrests mammalian cells in mitosis with monopolar spindles^{[1][2]}.

REFERENCES

[1]. Marques LA, et al. Antiproliferative activity of monastrol in human adenocarcinoma (MCF-7) and non-tumor (HB4a) breast cells. *Naunyn Schmiedebergs Arch Pharmacol.* 2016 Dec;389(12):1279-1288.

[2]. Mayer TU, et al. Small molecule inhibitor of mitotic spindle bipolarity identified in a phenotype-based screen. *Science.* 1999 Oct 29;286(5441):971-4.

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

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