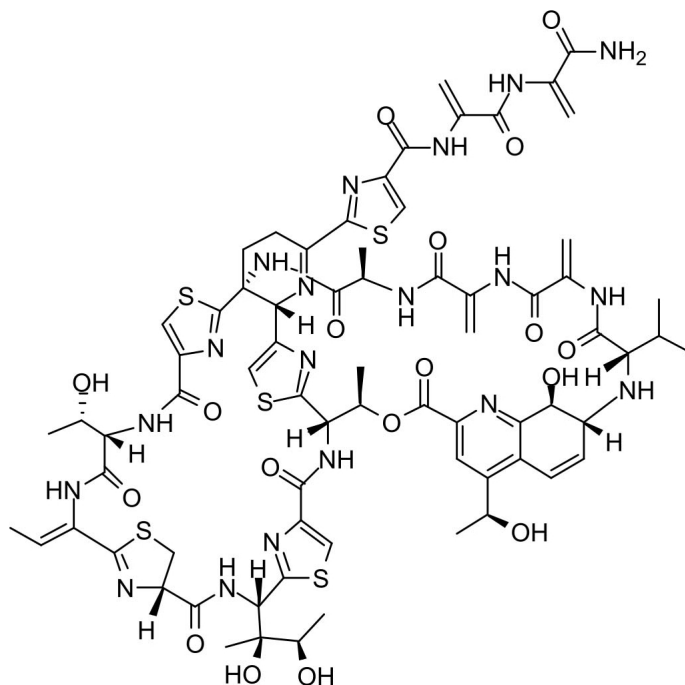


## Siomycin A

Code No.: BIA-S1136

Pack sizes.: 0.5mg, 2.5mg



### Synonyms:

Mutabilycin, Sporangiomycin, 6741-21, Mutabillicin

## Specifications

CAS #	: <b>12656-09-6</b>
Molecular Formula	: <b>C71H81N19O18S5</b>
Molecular Weight	: <b>1648.9</b>
Source	: -
Appearance	: <b>White solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in DMF or DMSO. Moderately soluble in methanol or ethanol. Poor water solubility.</b>

## Application Notes

Siomycin is a macrocyclic antibiotic with potent and selective antibacterial activity discovered in 1969. Siomycin is a potent inhibitor of the oncogenic transcription factor, FoxM1. The reduced transcription activity is reflected in the down regulation of protein and mRNA levels of FoxM1 and effects on down stream genes, Cdc25B, survivin and CENPB. In vitro, siomycin inhibits FoxM1-induced cell growth on soft agar and selectively kills transformed but not normal cells.

## References

1. Studies on Siomycin. I Physicochemical properties of siomycin A, B and C. Ebata, M. et al., *J. Antibiot., Ser. A*, 1969, 22, 364.
2. Identification of a chemical inhibitor of the oncogenic transcription factor Forkhead Box M1. Radhakrishnan et al., *Cancer Res.* 2006, 19, 9731.