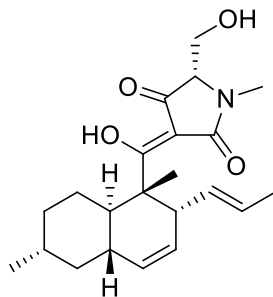


## Equisetin

Code No.: **BIA-E1029**

Pack sizes: **1 mg, 5 mg**



Synonyms :

### Specifications

CAS #	: 57749-43-6
Molecular Formula	: C <sub>22</sub> H <sub>31</sub> NO <sub>4</sub>
Molecular Weight	: 373.5
Source	: <i>Fusarium equiseti</i>
Appearance	: Light tan to tan solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in DMF or DMSO. Moderately soluble in methanol or ethanol. Poor water solubility.

### Application Notes

The tetramic acid, equisetin, is produced by a number of species of *Fusarium*. Interest in equisetin emerged with reports of its inhibitory activity against HIV-1 integrase in vitro that was mechanistically distinct from previously described inhibitors. Equisetin inhibits 3' end-processing and strand transfer, as well as disintegration catalysed by either the full-length enzyme or the truncated integrase core.

### References

1. Isolation and characterization of novel human immunodeficiency virus integrase inhibitors from fungal metabolites. Hazuda D. et al., *Antivir. Chem. Chemother.* 1999, 10, 63.
2. Equisetin, an antibiotic from *Fusarium equiseti* NRRL 5537, identified as a derivative of N-methyl-2,4-pyrrolidone. Vesonder R.F., *J. Antibiot.* 1979, 32, 759.