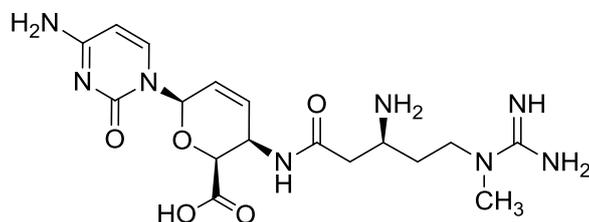


## Blasticidin S

Code No.: **BIA-B1425**

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



Synonyms : Cytovarín, Bla-S, 21544, A83094C, NSC 91770

### Specifications

CAS #	: 2079-00-7
Molecular Formula	: C <sub>17</sub> H <sub>26</sub> N <sub>8</sub> O <sub>5</sub>
Molecular Weight	: 422.4
Source	: <i>Streptomyces</i> sp.
Appearance	: White solid
Purity	: >98% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

### Application Notes

Blasticidin S is a nucleoside produced by several species of *Streptomyces*, first reported in the late 1950s. Blasticidin S is an antifungal agent with particularly potent activity against the rice pathogen, *Piricularia oryzae*, for which it was used commercially for some time in Japan. Blasticidin S inhibits protein synthesis and is active against bacteria, tumor cell lines and nematodes. More recently, blasticidin S has been used as a marker for strain manipulations. Blasticidin S provided by BioAustralis is presented as the free base to avoid problems associated with the use of the hydrochloride.

### References

1. Blasticidin S, a new antibiotic. Takeuchi S. et al. J. Antibiot. 1958, 11, 1.
2. Nucleoside antibiotics. Suhadolnik R.J. pub. Wiley-Interscience. 1970, 298.
3. Blasticidin S-resistance gene (bsr): a novel selectable marker for mammalian cells. Izumi M. et al. Exp. Cell Res. 1991, 197, 229.

Updated: 2 December 2014