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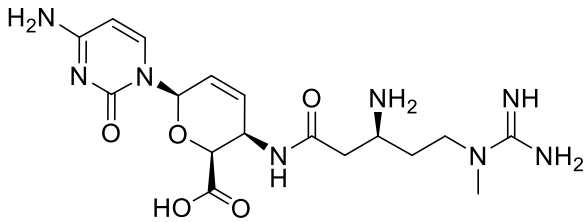
PRODUCT DATA SHEET

Blasticidin S

Code No.: **BIA-B1425**

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



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

Specifications

CAS #	:	**2079-00-7**
Molecular Formula	:	**$C_{17}H_{26}N_8O_5$**
Molecular Weight	:	**422.4**
Source	:	***Streptomyces* sp.**
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, 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. Wily-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.

For in vitro laboratory use only. Not for human or animal use.

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Building C, 28-54 Percival Road, Smithfield, NSW 2164, AUSTRALIA

Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com