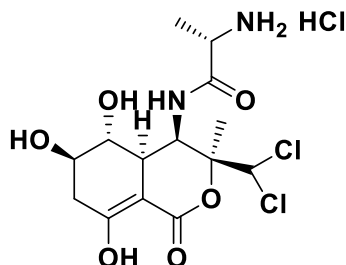


## PRODUCT DATA SHEET

### Bactobolin A (hydrochloride)

(Antitumor, Antibacterial)



### Specifications

Code No.	: 08465
CAS#	: Not applicable *
Parent CAS#	: 72615-20-4 (salt free form)
Molecular Formula	: C <sub>14</sub> H <sub>20</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>6</sub> HCl
Molecular Weight	: 419.680
Source	: <i>Pseudomonas</i> sp.
Supplied as	: Powder, hydrochloride salt
Purity	: >95% (HPLC)
Long Term Storage	: at -20 °C
Solubility	: Soluble in DMSO, H <sub>2</sub> O

\* CAS number 72615-20-4 is the salt free form of bactobolin A. The bactobolin A we supply is the hydrochloride salt form of which a CAS number has not been given yet.

### Application Notes

Bactobolin A was isolated from the fermentation broth of *Pseudomonas* sp. BMG13-A7. Bactobolin A has broad-spectrum antibacterial activity and prolongs the survival period of mice bearing leukemia L-1210.<sup>1)</sup> The acute toxicity of bactobolin A is estimated at 6.25-12.5 mg/kg in CDF<sub>1</sub> mice by a single intraperitoneal injection.<sup>2)</sup> It is reported that bactobolin A binds to a site on the 70S ribosome, which was different from the other antibiotics previously known.<sup>3)</sup>

### References

- 1) A new antitumor antibiotic, bactobolin produced by *Pseudomonas*. Kondo S, *et al. J Antibiot.* 1979 **32**(10) 1069-1071.
- 2) Antitumor effect of bactobolin and its influence on mouse immune system and hematopoietic cells. Ishizuka M, *et al. J Antibiot.* 1980 **33**(9) 1054-1062.
- 3) Bactobolin A binds to a site on the 70S ribosome distinct from previously seen antibiotics. Amunts, A. *et al. J Mol Biol.* 2015, **427**(4) 753-755.