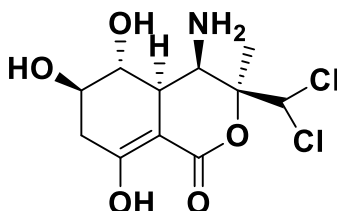


## PRODUCT DATA SHEET

### Bactobolamine

(Immunosuppressant)



### Specifications

Code No.	: 15160
CAS#	: 78013-07-7
Molecular Formula	: C <sub>11</sub> H <sub>15</sub> Cl <sub>2</sub> NO <sub>5</sub>
Molecular Weight	: 312.143
Source	: Synthetic derivative of bactobolin A
Supplied as	: Powder
Purity	: >98% (HPLC)
Long Term Storage	: at -20 °C
Solubility	: Soluble in DMSO, H <sub>2</sub> O

The chemical structure was confirmed by NMR and HRMS.

### Application Notes

Bactobolamine is a synthetic derivative of a *Pseudomonas* metabolite bactobolin A.<sup>1)</sup> Bactobolamine suppresses proliferative lymphocytic responses such as concanavalin A induced lymphoblast formation, and it induces significant prolongation of allograft survival.<sup>2)</sup> Low-dose bactobolamine when combined with low-dose tacrolimus prolongs markedly the survival of rat liver allografts. Low-dose bactobolamine when combined with low-dose cyclosporine inhibits the human mixed-lymphocyte reaction.<sup>3)</sup>

### References

- 1) Bactobolins, antitumor antibiotics from *Pseudomonas*. II, synthesis and biological activities of related compounds. Munakata T, *et. al. Yakugaku Zasshi* 1981 **101**(2) 138-147.
- 2) Effectiveness of bactobolamine as a new immunosuppressive agent. Tomikawa S, *et al. Transplant Proc.* 1997 **29**(1-2) 1276-1278.
- 3) Immunosuppressive effect of bactobolamine on in vitro lymphocyte alloactivation: synergism with cyclosporine. Imai T, *et al. Transplant Proc.* 2000 **32**(7) 2060-2062.