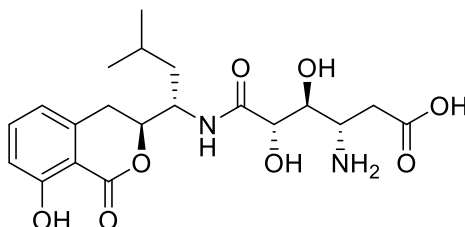


## Amicoumacin B

Code No.: **BIA-A2286**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : 3-Amino-2,3,6-trideoxy-6-[[1-(3,4-dihydro-8-hydroxy-1-oxo-1H-2-benzopyran-3-yl)-3-methylbutyl]amino]-6-oxohexonic acid

## Specifications

CAS #	: <b>82768-33-0</b>
Molecular Formula	: <b>C<sub>20</sub>H<sub>28</sub>N<sub>2</sub>O<sub>8</sub></b>
Molecular Weight	: <b>424.44</b>
Source	: <b><i>Nocardia</i> sp.</b>
Appearance	: <b>Tan solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in methanol or DMSO</b>

## Application Notes

Amicoumacin B is an isocoumarin produced by *B. subtilis*. Amicoumacin B is a quorum-sensing inhibitor against *Chromobacterium violaceum*. Its analogue, amicoumacin A, has strong anti-inflammatory and antiulcer properties in animal models.

## References

1. Amicoumacin antibiotic production and genetic diversity of *Bacillus subtilis* strains isolated from different habitats. Pinchuk I.V. et al. Res. Microbiol. 2002, 153, 269.
2. Amicoumacins from a desert bacterium: quorum sensing inhibitor against *Chromobacterium violaceum*. Shi W-P. et al. Nat. Prod. Res. 2020, ahead of print.
3. Amicoumacin-A, a new antibiotic with strong antiinflammatory and antiulcer activity. Itoh J. et al. J. Antibiot. 1981, 34, 611.