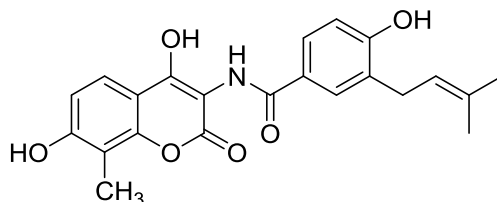


## Novobiocic acid

Code No.: **BIA-N1881**

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



Synonyms :

## Specifications

|                   |   |
|-------------------|---|
| CAS #             | : 485-23-4  |
| Molecular Formula | : C <sub>22</sub> H <sub>21</sub> NO <sub>6</sub> |
| Molecular Weight  | : 395.4   |
| Source            | : <i>Streptomyces</i> sp.                         |
| Appearance        | : White solid                                     |
| Purity            | : >95% by HPLC                                    |
| Long Term Storage | : -20°C   |
| Solubility        | : Soluble in ethanol, methanol, DMF or DMSO.      |

## Application Notes

Novobiocic acid is a member of the novobiocin aminocoumarin antibiotic family. Novobiocic acid is a key intermediate in the biosynthesis of novobiocin and an important acid degradation product. While novobiocic acid exhibits little antibacterial activity, it is more potent than novobiocin as a potentiator of etoposide BP-16 activity by inhibiting efflux from tumor cells.

## References

1. Initial characterization of novobiocic acid noviosyl transferase activity of NovM in biosynthesis of the antibiotic novobiocin. Freel Meyers C.L. et al., Biochem. 2003, 42, 4179.
2. Novobiocic acid synthetase. Koinek LA. & Meyer H.F., Meth. enzymol. 1975, 43, 502.
3. Structure-activity studies of novobiocin analogs as modulators of the cytotoxicity of etoposide (VP-16). Rappa G. et al., Oncol. Res. 2000, 12, 113.