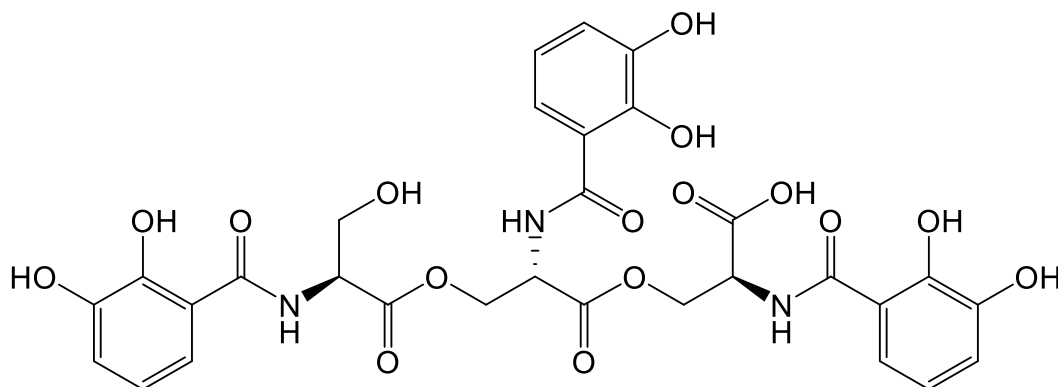


apo-Enterobactin

Code No.: **BIA-E2282**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms :

Specifications

| | |
|-------------------|-------------------------------|
| CAS # | : 30414-16-5 |
| Molecular Formula | : $C_{30}H_{29}N_3O_{16}$ |
| Molecular Weight | : 687.6 |
| Source | : <i>Streptomyces</i> sp. |
| Appearance | : Orange-brown solid |
| Purity | : >95% by HPLC |
| Long Term Storage | : -20°C |
| Solubility | : Soluble in methanol or DMSO |

Application Notes

apo-Enterobactin is the ring-opened form of enterobactin (enterochelin). apo-Enterobactin is a catecholate siderophore and a potent inhibitor of methylperoxidase (MPO) and lactoperoxidase (LPO) activity in the inflamed gut, reducing MPO activity in a dose-related manner.

References

1. Structures of enterochelin and related 2,3-dihydroxy-N-benzoylserine conjugates from *Escherichia coli*. O'Brien I.G. & Gibson F. *Biochim Biophys Acta* 1970, 215, 393.
2. Identification of enterobactin and linear dihydroxybenzoylserine compounds by HPLC and ion spray mass spectrometry (LC/MS and MS/MS). Berner I. et al. *Biol Metals* 1991, 4, 113.
3. Interplay between enterobactin, myeloperoxidase and lipocalin 2 regulates *E. coli* survival in the inflamed gut. Singh et al. *Nature Comm.* 2015, 6, 7113.