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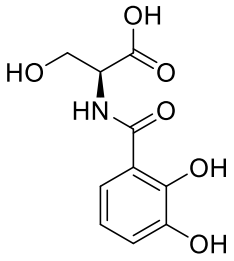
PRODUCT DATA SHEET

N-(2,3-Dihydroxybenzoyl)-L-serine

Code No.: **BIA-D2685**

Pack sizes: **5 mg, 25 mg**



Synonyms :

Specifications

CAS #	:	**7724-78-9**
Molecular Formula	:	**$C_{10}H_{11}NO_6$**
Molecular Weight	:	**241.2**
Source	:	***Streptomyces* sp.**
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol or DMSO**

Application Notes

N-(2,3-Dihydroxybenzoyl)-L-serine is a typical siderophore produced by bacteria of the Enterobacteriaceae and Streptomyces families. Dihydroxybenzoylserine is able to stimulate growth of Escherichia coli under iron limiting conditions. N-(2,3-dihydroxybenzoyl)-L-serine is the biosynthetic precursor and breakdown product of enterobactin. Enterobactin is the trimer of N-(2,3-dihydroxybenzoyl)-L-serine.

References

1. Dihydroxybenzoylserine - a siderophore for E. coli. Hantke K. FEMS Microbiol Lett. 1990, 55, 5.
2. Enterobactin: The characteristic catecholate siderophore of Enterobacteriaceae is produced by Streptomyces species. Fiedler H.-P. et al. FEMS Microbiol Lett. 2001, 196, 147.

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