

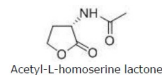
L-Homoserine Lactone Analogue Set

Code No.: BIA-MS5004

Pack sizes.: 1mg, 5mg

L-Homoserine Lactone Analogue Set

Code No.: BIA-MS5004



Product	Code No.	CAS #	Mol. Formula	Mol Wt.	Qty
Acetyl-L-homoserine lactone	BIA-A1493	51524-71-1	C ₆ H ₉ NO ₃	143.1	1mg
Butyryl-L-homoserine lactone	BIA-B1494	67605-85-0	C ₈ H ₁₃ NO ₃	171.2	1mg
Decanoyl-L-homoserine lactone	BIA-D1497	177315-87-6	C ₁₄ H ₂₅ NO ₃	255.4	1mg
Dodecanoyl-L-homoserine lactone	BIA-D1498	137173-46-7	C ₁₆ H ₂₉ NO ₃	283.4	1mg
Hexadecanoyl-L-homoserine lactone	BIA-H1500	87206-01-7	C ₂₀ H ₃₃ NO ₃	339.5	1mg
Hexanoyl-L-homoserine lactone	BIA-H1495	147852-83-3	C ₁₀ H ₁₇ NO ₃	199.3	1mg
Octadecanoyl-L-homoserine lactone	BIA-O1501	479050-96-9	C ₂₂ H ₄₁ NO ₃	367.6	1mg
Octanoyl-L-homoserine lactone	BIA-O1496	147852-84-4	C ₁₂ H ₂₁ NO ₃	227.3	1mg
Tetradecanoyl-L-homoserine lactone	BIA-T1499	202284-87-5	C ₁₈ H ₃₃ NO ₃	311.5	1mg

Synonyms:

1mg or 5mg of each compound

Specifications

CAS #	: Varied
Molecular Formula	: Varied
Molecular Weight	: Varied
Source	: -
Appearance	: Varied
Purity	: -
Long Term Storage	: -20°C
Solubility	: Methanol, ethanol, DMSO, very poor water solubility

Application Notes

L-Homoserine lactones comprise a family of mediators of cell to cell interactions between bacteria, notably in bacterial biofilms. When secreted by the producing bacteria, homoserine lactones modulate a diverse range of metabolic functions in surrounding species, regulating not only growth and motility but also the production of secondary metabolites such as antibiotics. The most significant variable defining the function of the homoserine lactones is the length of the acyl chain, with shorter chains displaying opposing actions to the longer chains. The L-Homoserine Lactone Analogue Set provides a series of available homoserine lactones from acetyl (C2) to octadecanoyl (C18). | 1. Acetyl-L-homoserine lactone – (CAS# 51524-71-1) – Molecular Formula: C₆H₉NO₃ – Molecular Weight: 143.1 | 2. Butyryl-L-homoserine lactone – (CAS# 67605-85-0) – Molecular Formula: C₈H₁₃NO₃ – Molecular Weight: 171.2 | 3. Decanoyl-L-homoserine lactone – (CAS# 177315-87-6) – Molecular Formula: C₁₄H₂₅NO₃ – Molecular Weight: 255.4 | 4. Dodecanoyl-L-homoserine lactone – (CAS# 137173-46-7) – Molecular Formula: C₁₆H₂₉NO₃ – Molecular Weight: 283.4 | 5. Hexadecanoyl-L-homoserine lactone – (CAS# 87206-01-7) – Molecular Formula: C₂₀H₃₇NO₃ – Molecular Weight: 339.5 | 6. Hexanoyl-L-homoserine lactone – (CAS# 147852-83-3) – Molecular Formula: C₁₀H₁₇NO₃ – Molecular Weight: 199.3 | 7. Octadecanoyl-L-homoserine lactone – (CAS# 479050-96-9) – Molecular Formula: C₂₂H₄₁NO₃ – Molecular Weight: 367.6 | 8. Octanoyl-L-homoserine lactone – (CAS# 147852-84-4) – Molecular Formula: C₁₂H₂₁NO₃ – Molecular Weight: 227.3 | 9. Tetradecanoyl-L-homoserine lactone – (CAS# 202284-87-5) – Molecular Formula: C₁₈H₃₃NO₃ – Molecular Weight: 311.5

References