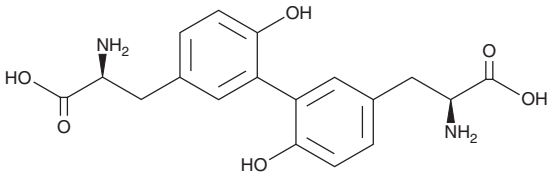
PRODUCT INFORMATION

L,L-Dityrosine

Item No. 35746

CAS Registry No.: 63442-81-9
Formal Name: α^3S,$\alpha^{3'}$S-diamino-6,6′-dihydroxy-[1,1′-biphenyl]-3,3′-dipropanoic acid
MF: $C_{18}H_{20}N_2O_6$
FW: 360.4
Purity: ≥90%
Supplied as: A solution in ethanol
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

L,L-Dityrosine is an amino acid conjugate containing two L-tyrosine molecules. L-Tyrosine residues in fibrinogen proteins can form L,L-dityrosine cross-links between fibrinogen proteins in the presence of hematin and plasma-generated hydrogen peroxide under non-thermal plasma exposure.[1] L-Tyrosine residues in human, but not mouse, amylin peptides can form L,L-dityrosine cross-links between amylin peptides in the presence of copper (II) ions and hydrogen peroxide.[2]

References

1. Ke, Z. and Huang, Q. Haem-assisted dityrosine-cross-linking of fibrinogen under non-thermal plasma exposure: One important mechanism of facilitated blood coagulation. *Sci. Rep.* **6**, 26982 (2016).
2. Dong, X., Svantesson, T., Sholts, S.B., *et al.* Copper ions induce dityrosine-linked dimers in human but not in murine islet amyloid polypeptide (IAPP/amylin). *Biochem. Biophys. Res. Commun.* **510(4)**, 520-524 (2019).

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