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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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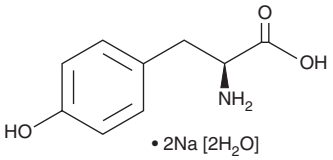
PRODUCT INFORMATION

L-Tyrosine (sodium salt hydrate)

Item No. 36333

CAS Registry No.: 122666-87-9
Formal Name: L-tyrosine, disodium salt, dihydrate
Synonyms: L-4-Hydroxyphenylalanine, *p*-Hydroxyphenylalanine, (–)-Tyrosine, *p*-Tyrosine
MF: $C_9H_{11}NO_3 \bullet 2Na\ [2H_2O]$
FW: 263.2
Purity: ≥98%
UV/Vis.: λ_{max}: 227 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

L-Tyrosine (sodium salt hydrate) is supplied as a solid. Aqueous solutions of L-tyrosine (sodium salt hydrate) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of L-tyrosine (sodium salt hydrate) in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

L-Tyrosine is a conditionally essential amino acid.[1] It is produced by hydroxylation of phenylalanine by phenylalanine hydroxylase but can also be obtained from dietary sources or degradation of endogenous proteins, resulting in L-tyrosine release.[1,2] L-Tyrosine is a precursor in the biosynthesis of catecholamine neurotransmitters, melanins, and thyroid hormones.[3] Plasma, skeletal muscle, and erythrocyte levels of L-tyrosine are decreased in patients with chronic kidney disease.[1]

References

1. Kopple, J.D. Phenylalanine and tyrosine metabolism in chronic kidney failure. *J. Nutr.* **137(6 Suppl 1),** 1586S-1590S (2007).
2. Webster, D. and Wildgoose, J. Tyrosine supplementation for phenylketonuria. *Cochrane DB Syst. Rev.* **6,** CD001507 (2013).
3. Slominski, A. and Paus, R. Towards defining receptors for L-tyrosine and L-DOPA. *Mol. Cell Endocrinol.* **99(2),** C7-C11 (1994).

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