



# L-Tyrosine Disodium Salt Dihydrate Emprove® Evolve

## Product Description and Application

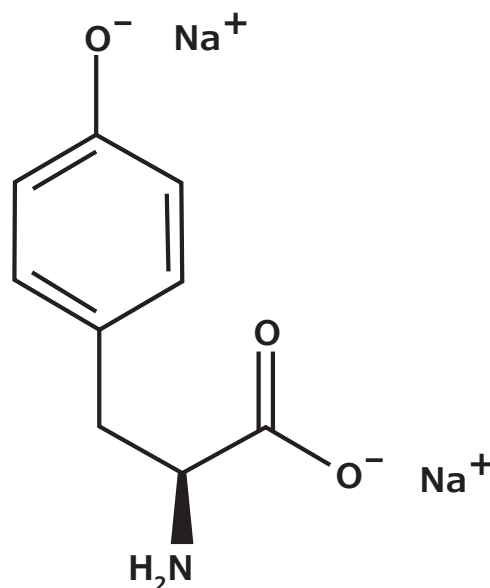
L-Tyrosine Disodium Salt Dihydrate Emprove® Evolve is a high-quality amino acid supplement manufactured for use in cell culture media within the biopharmaceutical industry. Its production adheres to stringent quality and regulatory standards, ensuring reliability and consistency for applications in the cultivation of mammalian cells.

## Enhanced Solubility for Optimal Performance

When incorporated into cell culture media, L-Tyrosine supports cell growth and viability, facilitating the production of therapeutic proteins and monoclonal antibodies. However, L-Tyrosine has low solubility at neutral pH, which poses a significant challenge for optimized cell culture processes, especially when high L-Tyrosine concentrations are required. L-Tyrosine Disodium Salt Emprove® Evolve offers increased solubility in water compared to the free base, supporting optimal productivity in biopharmaceutical applications. Increased solubility enables higher concentrations and more efficient bioprocesses.

## Key Benefits

- Salt form for enhanced solubility and improved efficiency
- High-quality, M-Clarity™ 400 and Emprove® Evolve product to meet biopharmaceutical requirements and facilitate your risk assessment
- Testing for cytotoxicity, RNase/DNase, bioburden, and endotoxin levels, ensuring safety and suitability for use in upstream applications



### Product Information

CAS Number	122666-87-9
Molecular Weight	261.18
Chemical Formula	C <sub>9</sub> H <sub>9</sub> NO <sub>3</sub> Na <sub>2</sub> ·2H <sub>2</sub> O

### Physiochemical Information

Purity (HPLC)	≥98.0%
pH Value	11.0–11.4
Endotoxin Assay	≤50 EU/g

## M-Clarity Program

The M-Clarity™ Program defines product quality segments and improves product and service transparency throughout our broad Life Science portfolio.

Chemicals and consumables are classified into 6 quality segments (MQ100-MQ600) based on defined quality attributes and notifiable changes, enabling you to choose a product that meets your need regarding quality, regulatory compliance, change control, and documentation.

L-Tyrosine Disodium Salt Dihydrate Emprove® Evolve is classified as MQ400. The MQ400 segment is intended for critical products and applications driven by high expectations for manufacturing control and requiring verified process control.

## Emprove®

Emprove® Evolve is for early stages of biopharmaceutical manufacturing such as upstream processing, early downstream processing and clean-in-place. Emprove® Evolve bridges the gap between lab-grade and GMP compliant raw and starting materials and provides transparent supply chain information and documentation.

The Emprove® Program helps to facilitate and accelerate the risk assessment continuum process. It offers convenient access to reliable information and enables you to:

- Make more agile, risk-based decisions
- Maintain compliance and demonstrate control – saving you time and money

As part of our Emprove® Program, our raw materials are offered with Emprove® Dossiers which provide comprehensive, up-to-date documentation to help you navigate regulatory challenges, manage risks, and improve your manufacturing processes.

Emprove® Evolve chemicals are supported by three Emprove® Dossiers:

- Material Qualification Dossier
- Quality Management Dossier
- Operational Excellence Dossier

The dossiers can be accessed online in the Emprove® Suite. All our subscribers to the Emprove® Suite get 24/7 access to all dossiers of the entire Emprove® portfolio for two years, with up to five accounts per company. The Material Qualification Dossier and Quality Management Dossier are available free of charge at **SigmaAldrich.com**

## Packaging and Ordering Information

L-Tyrosine Disodium Salt Dihydrate Emprove® Evolve		
Cat. No.	Packaging Unit	Packing Material
1372540100	100 g	HDPE Bottle
1372540003	3 x 100 g	3 x HDPE Bottle
1372540500	500 g	HDPE Bottle
1372541000	1 kg	HDPE Bottle
1372549010	10 kg	HDPE Pail



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