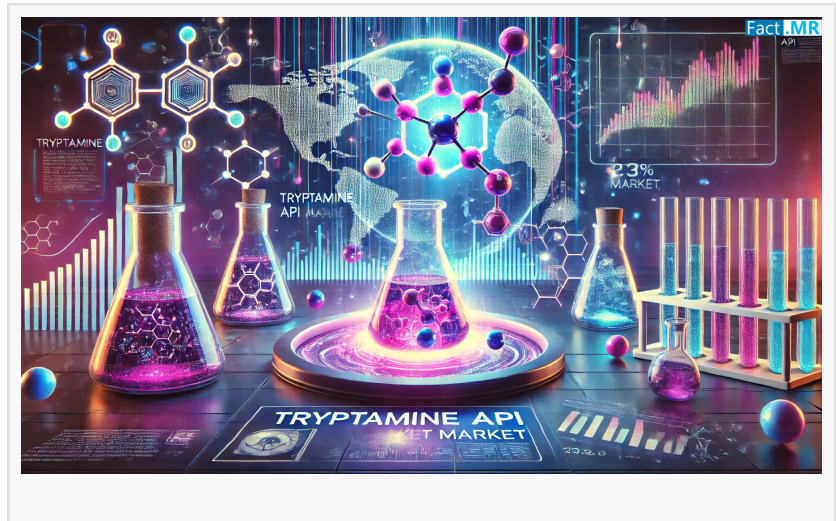


Tryptamine API Market Set to Grow, Expected to Hit \$2.25 Billion by 2034

Growing demand for tryptamine APIs stems from their anti-cancer potential, pharmaceutical uses, and role as a neurotransmitter modulator in brain function.

ROCKVILLE , MD, UNITED STATES,
February 12, 2025 /EINPresswire.com/
-- The [Tryptamine API Market](#) is expected to generate US\$ 2.25 billion in revenue globally by the end of 2034, up from US\$ 757.2 million in 2024. From 2024 to 2034, the market is expected to grow at a CAGR of 11.5%.



By inhibiting TrpRS enzymatic activity and downregulating its expression in multiple cultured cancer cells, tryptamine exhibits significant anti-cancer properties. At cytotoxic doses, it effectively eliminates cancer cells and has been shown to reduce tumor size and slow growth in vivo. These therapeutic potentials are driving the increasing demand for tryptamine APIs.

A naturally occurring monoamine alkaloid, tryptamine is present in plants, fungi, and animals. Structurally similar to the amino acid tryptophan, it contains an indole ring. Found in trace amounts in animal brains, tryptamine is thought to function as a neurotransmitter or neuromodulator.

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Tryptamine's chemical structure serves as the basis for the class of chemicals known as tryptamines. Neurotransmitters and hallucinogenic drugs are among the many physiologically active substances in this family. Along with substance abuse and mental health conditions, neural illnesses also carry a heavy stigma.

What's Driving the Rapid Global Demand for Tryptamine APIs?

Migraines are among the most prevalent neurological disorders, affecting about 1 billion people annually. Its morbidity and frequency are also noteworthy, particularly in young people and women. Comorbidities including stress and sleeplessness are linked to these illnesses.

Numerous social and biological risk factors, including as hormonal imbalances, genetic and epigenetic effects, and neurological, immunological, and cardiovascular illnesses, are being investigated as a result of the complex mechanisms behind migraine creation.

Analgesics, antiemetics, some anti-migraine agents, and prophylactic measures are the main drug classes used to treat headache issues. Research on the management of chronic migraines is a dynamic and quickly developing field. Tryptamine APIs are becoming more and more necessary as a result of research in this area that is producing more accurate diagnosis and specialized treatments for this condition.

People who lead busy lives in various nations or professions have stress and sleep deprivation, which exacerbates migraines. Because melatonin API is used in supplements for sleeping disorders, its demand is rising concurrently with the usage of tryptamine as an active pharmaceutical ingredient.

Competitive Landscape

Merck, Santa Cruz Biotechnology, Inc., Cayman Chemical Company (Matreya), Enamine Ltd., Indofine Chemical Company, Inc., Otto Chemie Pvt. Ltd., Pfizer Inc., Avra Synthesis Private Limited, Spectrum Chemical, Abbott Laboratories, Biosynth, Eli Lilly and Company, Tocris Bioscience, LGC Standards, Tokyo Chemical Industry Co. Ltd., Psygen, Toronto Research Chemicals, Pharmaffiliates Analytics and Synthetics P. Ltd., and Pharmaffiliates Analytics and Synthetics P. Ltd. are some of the major companies in the tryptamine API market.

In September 2023, the United States Patent and Trademark Office (USPTO) awarded U.S. patent 11,746,088 to Cybin Inc., a clinical-stage biopharmaceutical firm committed to transforming mental healthcare by creating innovative and creative psychedelic-based therapy solutions. This patent, which is exclusive until 2041, covers the composition of matter for deuterated tryptamine compounds and pharmaceutical compositions containing them.

Growth Drivers for Tryptamine API Market

Rising Demand for Psychedelic Therapeutics: Increasing research and clinical trials on psychedelics for mental health disorders, such as depression and PTSD, are driving the demand for tryptamine-based APIs.

Expanding Pharmaceutical Applications: Tryptamine APIs serve as key precursors in the synthesis of various pharmaceuticals, fueling their market growth across neurology and

psychiatry sectors.

Growing Interest in Novel Drug Development: The surge in interest in novel psychoactive compounds and their therapeutic potential is accelerating investments in tryptamine-based drug formulations.

Increased R&D in Neuroscience: Advances in neuropharmacology and the exploration of serotonin-related compounds are boosting the use of tryptamine derivatives in drug discovery.

Regulatory Shifts & Legalization Trends: Evolving regulations around psychedelic compounds and increased approvals for clinical research are creating new growth opportunities for the tryptamine API market.

Technological Advancements in API Manufacturing: Innovations in synthetic processes and purification techniques are enhancing production efficiency and quality, driving market expansion.

Growing Interest in Personalized Medicine: The shift toward precision medicine and customized treatment approaches is increasing the demand for tryptamine APIs in targeted therapies.

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The study divulges essential insights into the market based on product (emergency cots, transport cots), technology (manual cots, pneumatic cots, electric cots), and end user (EMS service providers, hospitals, ambulatory service centers), across six major regions of the world (North America, Europe, East Asia, Latin America, South Asia & Oceania, and MEA).

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Contact:

11140 Rockville Pike
Suite 400
Rockville, MD 20852
United States

S. N. Jha
Fact.MR
+1 628-251-1583
sales@factmr.com

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