

GTP sodium solution (100 mM)

Cat. No. COV-012

Lot. No. (See product label)

Introduction

Description GTP, Guanosine-5'-triphosphate, which is a highly stable type of nucleotide. This compound and its sodium salt are the basic components of energy conversion in biological systems, and can be used in a variety of related applications in molecular biology, such as in vitro transcription (IVT), RNA amplification, siRNA synthesis, etc. In addition, GTP plays an important role in signal transduction as a phosphate or pyrophosphate messenger: GTP activates G proteins, which can induce multiple protein kinase-mediated cascades that cause a variety of cytological behavior, such as cell proliferation, differentiation, etc. In addition, GTP can also be used as a high-energy precursor of single nucleotides to participate in the enzymatic synthesis of DNA and RNA.

Product Information

Form Clear colorless solution

CAS No. 36051-31-7

Molecular Formula C₁₀H₁₃N₅Na₃O₁₄P₃

Molecular Weight 589.1

Purity ≥99% (HPLC)

Storage and Shipping Information

Storage at -25 to -15 °C (Avoid repeated freeze-thaw cycles)