Creative Enzymes®

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)