

## 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** C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>Na<sub>3</sub>O<sub>14</sub>P<sub>3</sub>

**Molecular Weight** 589.1

**Purity** ≥99% (HPLC)

### Storage and Shipping Information

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