

HB240327

## GTP Solution GMP-grade (100 mM)

### Product Information

Product name	Cat#	Size
	10132ES03	1 mL
GTP Solution GMP-grade (100 mM)	10132ES10	10 mL
	10132ES60	100 mL

### Product Description

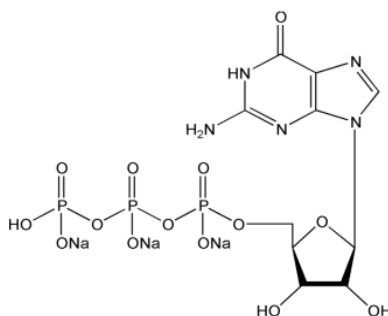
GTP, Guanosine-5'-triphosphate, can be used in various of molecular biology applications, such as in vitro transcription, RNA amplification, siRNA synthesis, etc. In addition, GTP plays an important role in signal transduction as a phosphate or pyrophosphate messenger: GTP can activate G proteins, which can induce multiple protein kinase mediated cascade reactions, causing a variety of cytological behaviors, such as cell proliferation, differentiation, etc. GTP can also be used as a high-energy precursor of single nucleotides to participate in the synthesis of DNase and RNase.

This product is a transparent colorless aqueous solution prepared with GTP trisodium salt, and free of DNase and RNase contamination. This product is produced in accordance with GMP process requirements and provided in liquid form.

### Product Properties

CAS No	86-01-1 (free acid); 36051-31-7 (3Na salt)
Formula	$C_{10}H_{13}N_5Na_3O_{14}P_3$
Molecular weight	589.13 g/mol
Purity(HPLC)	$\geq 99\%$
Content	100 mM $\pm$ 3 mM

#### Structure



### Shipping and Storage

The product is shipped with dry ice and can be stored at  $-25 \sim -15^{\circ}\text{C}$  for two years.

### Cautions

1. Keep on ice while using and return immediately to  $-20^{\circ}\text{C}$  after use.
2. For your safety and health, please wear personal protective equipment (PPE), such as laboratory coats and disposable gloves, when operating with this product.