

# Product Data Sheet



## Sulfo-Cyanine5 UTP Catalog ID: 210017

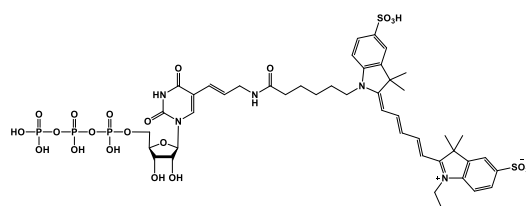
Revised: 2025-01-31

### Description

This Sulfo-Cyanine 5-labeled analog of uridine triphosphate (UTP) is designed for labeling RNA probes through in vitro transcription using various RNA polymerases. Sulfo-Cyanine 5-labeled RNA probes are widely utilized in molecular biology applications, such as in situ hybridization and gene expression microarrays. The labeled products can be directly detected via fluorescence.

### Chemical Properties

|                                       |                                        |
|---------------------------------------|----------------------------------------|
| CAS number                            | NA                                     |
| Formula                               | $C_{45}H_{58}N_5O_{22}P_3S_2$          |
| Molecular Weight                      | 1178.01                                |
| Concentration                         | 10.0 mM                                |
| Solvent                               | 10 mM Tris-HCl, pH 7.6,<br>1.0 mM EDTA |
| HPLC Purity                           | ≥95%                                   |
| $\lambda_{abs}$ (nm)                  | 650                                    |
| $\lambda_{fl}$ (nm)                   | 668                                    |
| $\epsilon_{max}$ ( $M^{-1} cm^{-1}$ ) | $2.5 \times 10^5$                      |



### Storage

Upon receipt, store at -20°C in the dark. Protect from light and moisture. When stored as indicated, Sulfo-Cyanine5 UTP is stable for at least 1 year.

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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