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## Product Data Sheet

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Product Name: 2-Thio-UTP

Cat. No.: GB20143

### Chemical Properties

Cas. No.

Formula  $C_9H_{15}N_2O_{14}P_3S$  (free acid) M.Wt 500.2 (free acid)

Solubility Storage Store at -20°C or below

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

Base modified ribonucleoside triphosphates. RNAs prepared from 2-Thio-UTP is less immunogenic as compared to unmodified RNA. 2-Thio-U modified mRNA shows no activation of RNA-dependent protein kinase, significantly reduced levels of 2'-5'-oligoadenylate synthetase activation, reduced levels of retinoic acid-inducible protein I and suppression of activation of Toll-like receptors.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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