

Thymidine- 3', 5'- O- bisphosphate (pTp) / 2'- Deoxythymidine- 3', 5'- O- bisphosphate

Biochemical

Thymidine- 3', 5'- O- bisphosphate (pTp) / 2'- Deoxythymidine- 3', 5'- O- bisphosphate

CATALOG #
AAA52695

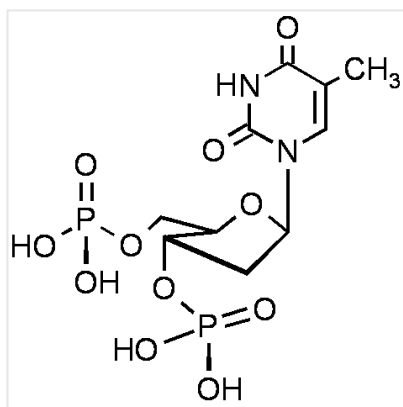
PRODUCT SYNONYMS

Thymidine- 3'; 5'- O- bisphosphate (pTp) / 2'- Deoxythymidine- 3'; 5'- O- bisphosphate; 5'- O- bisphosphate biochemical

PRODUCT SPECIFICATIONS

Specificity	Crystallized or lyophilized sodium salt. For other salt forms or analogues of pTp please inquire. Please keep in mind that equal concentrations of the compound may look different in volume due to high sensitivity of the lyophilized form to humidity. The compound can even contract to small volume droplets. Normally the product is located in the conical bottom of the tube. Micromolar quantities are determined by UV at λ_{max} .
Purity/Purification	Typical analysis is better than 95% (HPLC / UV / 267 nm). The product is not sterile and has not been tested for endotoxins.
Formula	C ₁₀ H ₁₆ N ₂ O ₁₁ P ₂ for free acid
CAS No.	[2863-04-9]
UV	λ_{max} 267 nm / λ_{9600} / pH 7
Properties	pTp is a competitive inhibitor of staphylococcal nuclease and is accepted by T4 RNA ligase to build oligodeoxyribonucleotides.
Solubility	pTp has good solubility in water (≥ 100 mM). Please rinse tube walls carefully and preferably use ultrasonic or vortex to achieve total and uniform mixing. When opening the tube please make sure that no substance is lost within the cap.
Preparation and Storage	pTp is chemically rather stable and does not need special care during handling or shipment. Nevertheless, we recommend that the compound should be stored in the freezer, for longer storage periods preferably in freeze-dried form.

IMAGES



Structure

ADDITIONAL INFORMATION

Related Product Information for Thymidine- 3', 5'- O- bisphosphate (pTp) / 2'- Deoxythymidine- 3', 5'- O- bisphosphate biochemical	In pTp phosphate groups are attached to both the ribose 3' position and the ribose 5' position of thymidine. Since thymidine already describes a 2'-deoxy nucleoside, the term "2'-deoxythymidine" is redundant.
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NCBI AND UNIPROT INFORMATION

Molecular Weight	402.2 for free acid
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/thymidine-3-5-o-bisphosphate-ptp-2-deoxythymidine-3-5-o-bisphosphate/52695>