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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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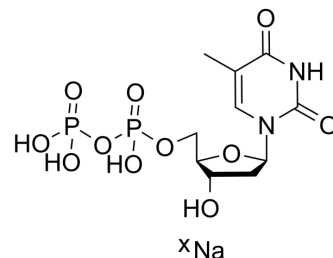
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Thymidine 5'-diphosphate sodium

| | |
|---------------------------|--|
| Cat. No.: | HY-131576A |
| CAS No.: | 108322-12-9 |
| Molecular Formula: | C ₁₀ H ₁₆ N ₂ O ₁₁ P ₂ .xNa |
| Target: | Endogenous Metabolite |
| Pathway: | Metabolic Enzyme/Protease |
| Storage: | -20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



SOLVENT & SOLUBILITY

| | |
|-----------------|---|
| In Vitro | H ₂ O : 50 mg/mL (Need ultrasonic and warming) |
|-----------------|---|

BIOLOGICAL ACTIVITY

| | |
|--------------------|---|
| Description | Thymidine 5'-diphosphate (dTDP) sodium is the key product of pyrimidine synthesis in organisms. Thymidine 5'-diphosphate sodium is produced by thymidylate kinase (TMPK) catalyzed phosphorylation of 5'-thymidine monophosphate (dTMP), which requires ATP and Mg ²⁺ . Thymidine 5'-diphosphate sodium is further catalyzed by TMPK to thymidine 5'-triphosphate (dTTP). TMPK activity can be detected by measuring the level of Thymidine 5'-diphosphate ^{[1][2]} . |
|--------------------|---|

REFERENCES

- [1]. Cui Q, et al. Thymidylate kinase: an old topic brings new perspectives. *Curr Med Chem*. 2013;20(10):1286-305.
- [2]. Tzeng HF, et al. Simultaneous determination of thymidylate and thymidine diphosphate by capillary electrophoresis as a rapid monitoring tool for thymidine kinase and thymidylate kinase activities. *Electrophoresis*. 2005 Jun;26(11):2225-30.

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

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