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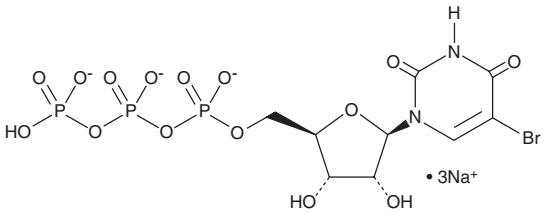
PRODUCT INFORMATION

5-Bromouridine 5'-triphosphate (sodium salt)

Item No. 18140

Formal Name: 5-bromo-uridine 5'-(tetrahydrogen triphosphate), trisodium salt
Synonym: 5-BrUTP
MF: $C_9H_{11}BrN_2O_{15}P_3 \bullet 3Na$
FW: 629.0
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 210, 280 nm



Laboratory Procedures

For long term storage, we suggest that 5-bromouridine 5'-triphosphate (5-BrUTP) (sodium salt) be stored as supplied at -20°C. It should be stable for at least two years.

5-BrUTP (sodium salt) is supplied as a crystalline solid. 5-BrUTP (sodium salt) is sparingly soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. For biological experiments, we suggest that organic solvent-free aqueous solutions of 5-BrUTP (sodium salt) be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 5-BrUTP (sodium salt) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

5-BrUTP is a brominated form of UTP that is used to label RNA during transcription. 5-BrUTP in newly-transcribed RNA is then evaluated immunologically with antibodies. This approach has been used to detect or measure RNA transcription with a variety of imaging and molecular methods.[1-5]

References

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2. Eskiw, C.H., Rapp, A., Carter, D.R.F., *et al*. RNA polymerase II activity is located on the surface of protein-rich transcription factories. *J. Cell Sci.* **121**, 1999-2007 (2008).
3. Heinrich, B.S., Cureton, D.K., Rahmeh, A.A., *et al*. Protein expression redirects vesicular stomatitis virus RNA synthesis to cytoplasmic inclusions. *PLoS Pathog.* **6(6)**, 1-14 (2010).
4. Javed, A., Zaidi, S.K., Gutierrez, S.E., *et al*. In situ immunofluorescence analysis: Analyzing RNA synthesis by 5-bromouridine-5'-triphosphate labeling. *Methods Mol. Biol.* **285**, 29-31 (2004).
5. Thiry, M., Cheutin, T., O'Donohue, M.-F., *et al*. Dynamics and three-dimensional localization of ribosomal RNA within the nucleolus. *RNA* **6**, 1750-1761 (2000).

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