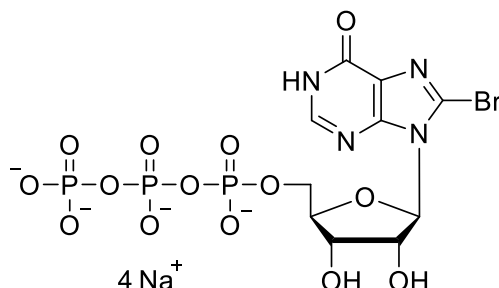


Technical Information about 8-Br-ITP

Update: January 11, 2022 AI



Abbreviation: 8-Br-ITP

| Formula | CAS No. | Molecular Weight | UV | BIOLOG Cat. No. |
|--|--------------|----------------------|---|-----------------|
| C ₁₀ H ₁₄ BrN ₄ O ₁₄ P ₃ (free acid) | [81481-67-6] | 587.1 (free acid) | λ _{max} 259 nm / ε 14400 / pH 11 | B 157 |

Name: 8- Bromoinosine- 5'- O- triphosphate, sodium salt

Description: 8-Br-ITP is an analogue of inosine-5'-O-triphosphate (ITP) in which the hydrogen atom in position 8 of the purine nucleobase has been replaced by bromine.

Properties: 8-Br-ITP may be useful as starting structure in the synthesis of 8-modified ITP derivatives. ITP is an intermediate in the purine metabolism pathway.

Specification: Aqueous solution of the sodium salt (10 mM). Other salt forms of 8-Br-ITP are available upon request. Micromolar quantities are determined by UV at λ_{max}. When opening the tube please make sure that no liquid is lost within the cap. A short spin-down in a bench centrifuge is recommended before use.

Purity: Typical purity is better than 95% (HPLC / UV / 259 nm) at time of quality control and packing. However, actual purity depends on storage and transport conditions. The product is not sterile and has not been tested for endotoxins.

Stability and Storage: 8-Br-ITP is most stable when stored as aqueous solution in the freezer (- 20° Celsius necessary, - 80° recommended), however, at ambient temperature the compound slowly starts to decompose. Thus, in order to maintain its original high quality it is recommended to allow thawing only before using the product. If you will not use up the vial with one application, please aliquot the contents of the vial in order to avoid repeated freeze/thaw cycles for the rest. When making such aliquots, be sure to operate quickly and to freeze the vial again as soon as possible.

Toxicity and Safety: Since triphosphates have multiple tasks in every organism, it is very likely that triphosphate analogues will interfere with many cell regulation processes *in vivo*. However, due to the rather small quantities to work with, no health hazards have been reported. Nevertheless, please keep in mind, that the *in vivo* properties of this compound are not sufficiently characterized up to now. Avoid contact with eyes and skin or ingestion and allow only trained personnel to handle the product. Our products are designed, developed and sold for research purposes only! They are intended for *in vitro* and nonhuman *in vivo* laboratory applications. Any other use requires approval of health authorities.
Not for drug, household or related uses!