



Product Specifications

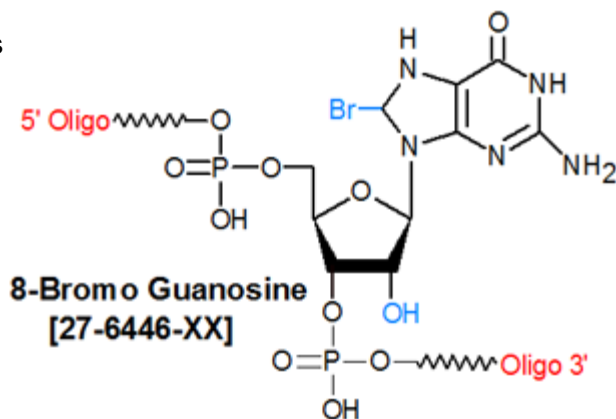
Custom Oligo Synthesis, antisense oligos, RNA oligos, chimeric oligos, Fluorescent dyes, Affinity Ligands, Spacers & Linkers, Duplex Stabilizers, Minor bases, labeled oligos, Molecular Beacons, siRNA, phosphonates Locked Nucleic Acids (LNA); 2'-5' linked Oligos

Oligo Modifications

For research use only. Not for use in diagnostic procedures for clinical purposes.

8-Br rG

| | |
|--------------------------|---------------------|
| Category | RNA Oligo Synthesis |
| Modification Code | 8-Br-rG |
| Reference Catalog Number | 27-6446 |
| 5 Prime | Y |
| 3 Prime | Y |
| Internal | Y |
| Molecular Weight(mw) | 424.11 |



8-Bromoguanosine is a brominated derivative of guanosine. Purine nucleobases with bromine at position eight are known to preferentially adopt the syn conformation as nucleosides and, thus, can be used to reduce the conformational heterogeneity of RNA to potentially enhance its function(1). It is reported to activate lymphocytes through an intracellular mechanism to exert immunostimulatory effects (2,3).

References

1. R. Yajima, D. J. Proctor, R. Kierzek, et al. A conformationally restricted guanosine analog reveals the catalytic relevance of three structures of an RNA enzyme. *Chemistry & Biology* 14, 23-30 (2007).
2. M. G. Goodman and W. O. Weigle. Intracellular lymphocyte activation and carrier-mediated transport of C8-substituted guanine ribonucleosides. *Proceedings of the National Academy of Sciences of the United States of America* 81, 862-866 (1984).
3. S. Giorgio and S. C. Barao. Intracellular *Leishmania amazonensis* killing induced by the guanine nucleoside 8-bromoguanosine. *Rev.Inst.Med.Trop.S.Paulo.* 40(4), 1-9 (1998).