

## Product Information

### Rp-8-Br-PET-cGMPS, Purity ≥98%

**Cat. No.:** X24-09-YM1383

**Size:** 0.5 mg; 1 mg; 2 mg; 5 mg

**CAS Number:** 185246-32-6

**Compound CID:** 23695925

**Synonym:** 185246-32-6; Rp-8-Bromo-beta-phenyl-1,*N*2-ethenoguanosine 3',5'-cyclic

monophosphorothioate sodium salt; Sodium;

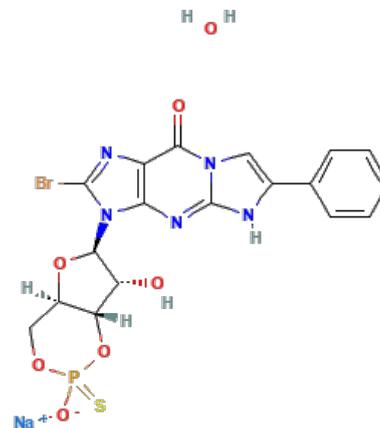
3-[(4*aR*,6*R*,7*R*,7*aS*

)-7-hydroxy-2-oxido-2-sulfa

nylidene-4*a*,6,7,7*a*-tetrahydro-4*H*

-furo[3,2-*d*][1,3,2]dioxapho

sphinin-6-yl]-2-bromo-6-phenyl-5*H*-imidazo[1,2-*a*]purin-9-one; hydrate



**This product is for research use only and is not intended for diagnostic use.**

### Product Information

<b>Description</b>	Rp-8-Br-PET-cGMPS is a metabolically stable, competitive inhibitor of cGKI and cGKII. The molecular weight of the compound is 562.27, and its molecular formula is C <sub>18</sub> H <sub>14</sub> BrN <sub>5</sub> NaO <sub>6</sub> PS.
<b>Molecular Weight</b>	562.27
<b>Molecular Formula</b>	C <sub>18</sub> H <sub>14</sub> BrN <sub>5</sub> NaO <sub>6</sub> PS
<b>IUPAC Name</b>	Sodium;3-[(4 <i>aR</i> ,6 <i>R</i> ,7 <i>R</i> ,7 <i>aS</i> )-7-hydroxy-2-oxido-2-sulfanylidene-4 <i>a</i> ,6,7,7 <i>a</i> -tetrahydro-4 <i>H</i> -furo[3,2- <i>d</i> ][1,3,2]dioxaphosphinin-6-yl]-2-bromo-6-phenyl-5 <i>H</i> -imidazo[1,2- <i>a</i> ]purin-9-one;hydrate
<b>InChI</b>	InChI=1S/C18H15BrN5O6PS.Na.H2O/c19-17-21-11-14(24(17)16-12(25)13-10(29-16)7-28-31(27,32)30-13)22-18-20-9(6-23(18)15(11)26)8-4-2-1-3-5-8;/h1-6,10,12-13,16,25H,7H2,(H,20,22)(H,27,32);;1H2/q;+1;/p-1/t10-,12-,13-,16-,31?;/m1../s1
<b>InChI Key</b>	PNUXBFRWMZKKAJ-IPZAVTHYSA-M
<b>Canonical SMILES</b>	C1C2C(C(C(O)N3C4=C(C(=O)N5C=C(NC5=N4)C6=CC=CC=C6)N=C3Br)O)OP(=S)(O1)[O-].O.[Na+]
<b>Isomeric SMILES</b>	CCO/C(=N/C1=C[N+](=NO1)N2CCOCC2)/[O-]
<b>Form</b>	Lyophilized powder
<b>Purity</b>	≥98%



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<b>Impurities</b>	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	In its lyophilized form, the chemical remains stable for 36 months.
<b>Quality Level</b>	Research grade
<b>Applications</b>	Rp-8-Br-PET-cGMPS plays a key role in cardiovascular biology, neurobiology, and smooth muscle physiology.
<b>Storage</b>	Store at -20°C, and keep desiccated.

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