

## 2',3'-cGAMP, Endogenous STING agonist

Catalog	Unit
TBI1639-200UG	200 ug
TBI1639-1MG	1 mg

### Product Details

**Formal Name:** Adenylyl-(3'5')-2'guanylic acid, cyclic nucleotide, disodium salt

**Alternate Names:** 2',3'cyclic GMP-AMP

**Molecular Formula:** C<sub>20</sub>H<sub>22</sub>N<sub>10</sub>O<sub>13</sub>P<sub>2</sub>·2Na

**Formula Weight:** 718.38

**CAS Number:** 1441190-66-4

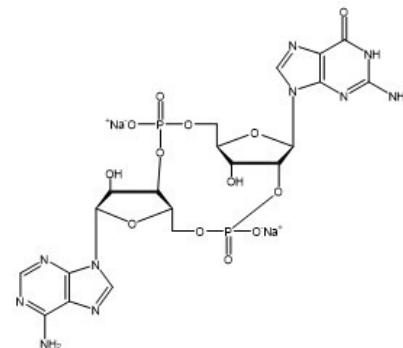
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to at least 25 mg/ml) or in Water (up to 10 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

Endogenous STING agonist

### Functions

2',3'-cGAMP (CAS 1441190-66-4) is an endogenous STING (stimulator of interferon genes) agonist. Produced from ATP and GTP via the action of cGMP-AMP synthase (cGAS) which acts as a cytosolic DNA sensor. Induces autophagy which is a mechanism for clearance of DNA and viruses in the cytosol. DNA damage stimulates 2',3'-cGAMP which stimulates an inflammatory response.

### Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml) or in Water (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or distilled water may be stored at -20°C for up to 3 months.

**For research use only.**