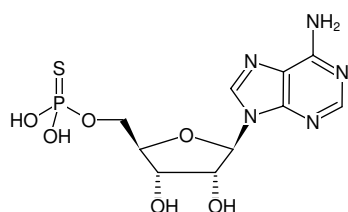




## AMP $\alpha$ S - Solution

Adenosine-5'-( $\alpha$ -thio)-monophosphate, Sodium salt

| Cat. No. | Amount                  |
|----------|-------------------------|
| NU-1161S | 100 $\mu$ l (10 mM)     |
| NU-1161L | 5 x 100 $\mu$ l (10 mM) |



Structural formula of AMP $\alpha$ S - Solution

**For general laboratory use.**

**Shipping:** shipped on gel packs

**Storage Conditions:** store at -20 °C

Short term exposure (up to 1 week cumulative) to ambient temperature possible.

**Shelf Life:** 12 months after date of delivery

**Molecular Formula:** C<sub>10</sub>H<sub>14</sub>N<sub>5</sub>O<sub>6</sub>PS (free acid)

**Molecular Weight:** 363.28 g/mol (free acid)

**Exact Mass:** 363.04 g/mol (free acid)

**Purity:**  $\geq$  95 % (HPLC)

**Form:** solution in water

**Color:** colorless to slightly yellow

**Concentration:** 10 mM - 11 mM

**pH:** 7.5  $\pm$  0.5

**Spectroscopic Properties:**  $\lambda_{\max}$  259 nm,  $\epsilon$  15.4 L mmol<sup>-1</sup> cm<sup>-1</sup> (Tris-HCl pH 7.5)

### Selected References:

Singh *et al.* (2011) Structural basis of the inhibition of class C acid phosphatases by adenosine 5'-phosphorothioate. *FEBS J* **278** (22):4374.

Murray *et al.* (1968) Adenosine 5'-phosphorothioate. A nucleotide analog that is a substrate, competitive inhibitor, or regulator of some enzymes that interact with adenosine 5'-phosphate. *Biochemistry* **7** (11):4023.