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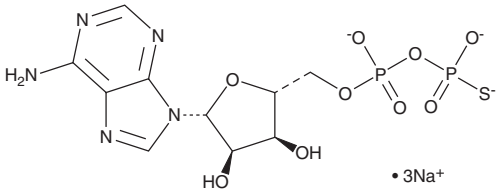
PRODUCT INFORMATION

Adenosine-5'-O-(2-thiodiphosphate) (sodium salt)

Item No. 38360

Formal Name:	5′-adenylic acid, anhydride with phosphorothioic acid, trisodium salt
Synonym:	ADP-β-S
MF:	$C_{10}H_{12}N_5O_9P_2S \bullet 3Na$
FW:	509.2
Purity:	≥95%
Supplied as:	A solution in water
Storage:	-80°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

Adenosine-5'-O-(2-thiodiphosphate) is an agonist of purinergic P2Y receptors.[1] It increases glucose-stimulated insulin release in isolated rat pancreas when used at concentrations ranging from 49.5 to 495 nM. Adenosine-5'-O-(2-thiodiphosphate) (1.5 µM) induces vasodilation in isolated rat pancreas and relaxation in isolated rat aortic rings precontracted by serotonin (5-HT; Item No. 14332) with an EC_{50} value of 0.09 µM.[2] It increases insulin secretion and reduces elevated glucose levels in fasted dogs when administered at a dose of 0.1 mg/kg.[3]

References

1. Bertrand, G., Chapal, J., Puech, R., *et al.* Adenosine-5'-O-(2-thiodiphosphate) is a potent agonist at P2 purinoceptors mediating insulin secretion from perfused rat pancreas. *Br. J. Pharmacol.* **102(3)**, 627-630 (1991).
2. Saïag, B., Hillaire-Buys, D., Chapal, J., *et al.* Study of the mechanisms involved in adenosine-5'-O-(2-thiodiphosphate) induced relaxation of rat thoracic aorta and pancreatic vascular bed. *Br. J. Pharmacol.* **118(3)**, 804-810 (1996).
3. Hillaire-Buys, D., Chapal, J., Bertrand, G., *et al.* Purinergic receptors on insulin-secreting cells. *Fundam. Clin. Pharmacol.* **8(2)**, 117-127 (1993).

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