

## Product Information

### ATPase inhibitor Sodium orthovanadate, Purity $\geq 98\%$

**Cat. No.:** X24-07-ZQ306

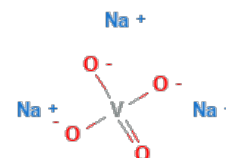
**Size:** 1 g; 5 g; 10 g

**MDL:** MFCD00003511

**CAS Number:** 13721-39-6

**Compound CID:** 61671

**Synonym:** 13721-39-6; ATPase inhibitor



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

#### Product Information

<b>Description</b>	Sodium orthovanadate, soluble in water and insoluble in DMSO and ethanol, specifically hinders the activity of ATPase enzymes, thereby disrupting the process of ATP hydrolysis, which is critical for energy conversion and cellular functions. It targets (Na,K)-ATPase and phosphatase.
<b>Molecular Weight</b>	183.9
<b>Targets</b>	(Na,K)-ATPase: 40 nM; Phosphatase: 10 $\mu$ M
<b>IUPAC Name</b>	Trisodium;trioxido(oxo)vanadium
<b>InChI</b>	InChI=1S/3Na.4O.V/q3*+1;;3*-1;
<b>InChI Key</b>	IHIXIJGXTJIKRB-UHFFFAOYSA-N
<b>Canonical SMILES</b>	[O-][V](=O)([O-])[O-].[Na+].[Na+].[Na+]
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Solubility</b>	DMSO: Insoluble; Water: 32 mg/mL (173.99 mM); Ethanol: Insoluble
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
<b>Quality Level</b>	Research grade
<b>Applications</b>	Sodium orthovanadate is an ATPase inhibitor utilized in studies exploring the inhibition of phosphatases and the modulation of cellular ATPase activity.
<b>Storage</b>	Store at $-20^{\circ}\text{C}$ , and keep desiccated.