Sodium pyrophosphate

Cat. No.: CAS No.: Molecular Formula:	HY-W105970 7758-16-9 H _a Na _a O _a P _a	
Molecular Weight: Target:	221.94 Biochemical Assay Reagents	Na ₂ H ₂ P ₂ O ₇
Pathway: Storage:	Others 4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

Preparing Stock Solutions	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	4.5057 mL	22.5286 mL	45.0572 mL
	5 mM	0.9011 mL	4.5057 mL	9.0114 mL	
		10 mM	0.4506 mL	2.2529 mL	4.5057 mL

BIOLOGICAL ACTIVITY						
Description	Sodium pyrophosphate (Disodium pyrophosphate), a food additive, is an inorganic compound. Sodium pyrophosphate has potential hematotoxic and immunotoxic effects ^[1] .					
In Vivo	Disodium pyrophosphate (oral administration, 12.6 mg/kg) displays hematotoxic and immunotoxic effects with long-term exposure in rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.					
	Animal Model:	Adult Sprague-Dawley rats ^[1]				
	Dosage:	12.6 mg/kg				
	Administration:	Oral administration				
	Result:	Displayed significant leukopenic condition. Decreased in CD3 T-lymphocyte and CD20 Blymphocyte immunolabeling in rats. Downregulated of PPAR-α and PPAR-γ together with upregulation of TNF-α.				

REFERENCES

[1]. Yasmina M Abd-Elhakim, et al. Effects of the food additives sodium acid pyrophosphate, sodium acetate, and citric acid on hemato-immunological pathological biomarkers in rats: Relation to PPAR-α, PPAR-γ and tnfα signaling pathway. Environ Toxicol Pharmacol. 2018 Sep;62:98-106.

Caution: Product has not been fully validated for medical applications. For research use only.

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