Dipotassium hydrogen phosphate

Cat. No.:	HY-W019883
CAS No.:	7758-11-4
Molecular Formula:	HK_2O_4P
Molecular Weight:	174.18
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

K_2HPO_4

SOLVENT & SOLUBILITY

In Vitro

H_2O : 50 mg/mL (287.06 mM; Need ultrasonic)

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
1 mM	5.7412 mL	28.7059 mL	57.4119 mL
5 mM	1.1482 mL	5.7412 mL	11.4824 mL
10 mM	0.5741 mL	2.8706 mL	5.7412 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Dipotassium hydrogen phosphate is a highly water-soluble salt which is often used as a fertilizer, food additive and buffering agent. Dipotassium hydrogen phosphate can be used as an excipient, such as pH regulator, buffer. Pharmaceutical excipients, or pharmaceutical auxiliaries, refer to other chemical substances used in the pharmaceutical process other than pharmaceutical ingredients. Pharmaceutical excipients generally refer to inactive ingredients in pharmaceutical preparations, which can improve the stability, solubility and processability of pharmaceutical preparations. Pharmaceutical excipients also affect the absorption, distribution, metabolism, and elimination (ADME) processes of co-administered drugs [1][2].

REFERENCES

[1]. Kumar H, et al. Effect of dipotassium hydrogen phosphate on thermodynamic properties of glycine and l-alanine in aqueous solutions at different temperatures[J]. The Journal of Chemical Thermodynamics, 2012, 53: 86-92.

[2]. Elder DP, et al. Pharmaceutical excipients - quality, regulatory and biopharmaceutical considerations. Eur J Pharm Sci. 2016 May 25;87:88-99.

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

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