

Dipotassium hydrogen phosphate trihydrate

Cat. No.:	HY-W088069
CAS No.:	16788-57-1
Molecular Formula:	H ₇ K ₂ O ₇ P
Molecular Weight:	228.22
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (219.09 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.3817 mL	21.9087 mL	43.8174 mL
	5 mM		0.8763 mL	4.3817 mL	8.7635 mL
	10 mM		0.4382 mL	2.1909 mL	4.3817 mL

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

BIOLOGICAL ACTIVITY

Description

Dipotassium hydrogen phosphate trihydrate, which is commonly used as a buffer and source of phosphorus and potassium in various applications, such as fertilizers, food processing, and pharmaceuticals, in biochemistry and molecular biology, Dipotassium hydrogen phosphate trihydrate is used in the preparation of cell culture media And reagent buffer system, in addition, it has been used in analytical chemistry as a reagent for the determination of calcium and magnesium ions in water samples.

In Vitro

Dipotassium hydrogen phosphate trihydrate affects pH level in liquid. Dipotassium hydrogen phosphate (trihydrate) 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]}.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Wang M, et al. Influence of dipotassium hydrogen phosphate on properties of magnesium potassium phosphate cement[J]. Construction and Building Materials, 2022, 320: 126283.
- [2]. Elder DP, et al. Pharmaceutical excipients - quality, regulatory and biopharmaceutical considerations. Eur J Pharm Sci. 2016 May 25;87:88-99.
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Caution: Product has not been fully validated for medical applications. For research use only.

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