

Pyrophosphatase Inorganic

Product Information

Cat#	DIA-812
Descriptions	Pyrophosphatase Inorganic catalyzes the hydrolysis of inorganic pyrophosphate into two molecules of orthophosphate, shifts the equilibrium of biosynthetic reactions toward product formation, and is routinely added to coupled enzymatic systems to improve reaction efficiency.
Applications	Pyrophosphatase Inorganic is used for coupled biosynthetic reaction detection kits and reaction efficiency enhancement reagent development for biochemical assays.
CAS No.	9024-82-2
Enzyme Commission Number	EC 3.6.1.1
Enzyme Source	E. coli
Synonyms	17-(Cyclobutylmethyl)-4,5-epoxymorphinan-3,6,14-triol [ACD/IUPAC Name]; 17-(Cyclobutylmethyl)-4,5-epoxymorphinan-3,6,14-triol [German] [ACD/IUPAC Name]; 17-(Cyclobutylméthyl)-4,5-époxy-morphinan-3,6,14-triol [French] [ACD/IUPAC Name]; Morphinan-3,6,14-triol, 17-(cyclobutylmethyl)-4,5-epoxy-[ACD/Index Name]; (4R,4aS,7S,7aR,12bS)-3-(cyclobutylmethyl)-1,2,4,5,6,7,7a,13-octahydro-4,12-methanobenzofuro[3,2-e]isoquinoline-4a,7,9-triol; (5α,6α)-17-(Cyclobutylmethyl)-4,5-epoxymorphinan-3,6,14-triol; 9024-82-2 [RN]; Morphinan-3,6,14-triol, 17-(cyclobutylmethyl)-4,5-epoxy-, (5α,6α)-; Nalbuphine [INN] [Wiki]; N-Cyclobutylmethyl-14-hydroxydihydronormorphine
Activity Definition	1 active unit is defined as the amount of enzyme needed to hydrolyze inorganic pyrophosphate and produce 1 μmol of phosphate in 1min under standard reaction conditions 1 active unit is defined as the amount of enzyme needed to hydrolyze inorganic pyrophosphate and produce 1 μmol of phosphate in 1min under standard reaction conditions (standard reaction conditions: in 10 min at 25°C, 0.5mL reaction system containing 100 mM Tris HCl, pH7.2, 2mM MgCl2 and 2mM inorganic

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pyrophosphate).
