

Active Recombinant *S. acidocaldarius* Thermostable Pyrophosphatase

Cat. No. PPA-60S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A recombinant <i>E. coli</i> strain carrying the Thermostable Pyrophosphatase gene from <i>S. acidocaldarius</i> .
Species	<i>S. acidocaldarius</i>
Source	<i>E. coli</i>
Description	Thermostable pyrophosphatase is a recombinant enzyme from <i>Sulfolobus acidocaldarius</i> which catalyzes the Mg-dependent reaction of $P_2O_7^{4-} + H_2O \rightarrow 2HPO_4^{2-}$. It has a low K_m (5.4 μM) for pyrophosphate, is active between pH 7 and 9, has an optimal temperature for activity at 75°C and is functional under PCR conditions.
Bio-activity	3,500 U/mg
Molecular Mass	19,381 Daltons
Purity	>95% by SDS-PAGE
Unit Definition	One unit is the amount of enzyme that will liberate 1 μmol of phosphate per minute from inorganic pyrophosphate at 75°C and pH 8.5
Storage	-25 to -15°C
Concentration	2,000 U/ml

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Buffer

Supplied in: 10 mM Tris-HCl pH 7.5, 50 mM NaCl, 50% Glycerol, 1 mM DTT, 0.1 mM EDTA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA