Data Sheet (Cat.No.TMPY-00570)

TargetMol

Alkaline Phosphatase/PLAP Protein, Human, Recombinant (His)

General Information

Synonyms:	ALPI;PALP;PLAP;PLAP-1;alkaline phosphatase, placental;IAP;ALP
Protein Construction:	A DNA sequence encoding human ALPP (AAH09647.1) (Ile23-Asp506) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Ile 23
Species:	Human
Expression Host:	P. pastoris (Yeast)
Accession:	AAH09647.1
Molecular Weight:	54.1 kDa (predicted); 66 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 80 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Supplied as sterile 50 mM Tris-Acetate, 1 mM EDTA, 20% glycerol, pH 7.5.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Most importantly, placental alkaline phosphatase (ALPP), an ectoenzyme that locates on cell surface with catalytic domains outside the plasma membrane and is overexpressed on many cancer cells, dephosphorylate the d-tyrosine phosphates on the surface of the magnetic nanoparticle and enable the magnetic nanoparticles to adhere selectively to the cancer cells, such as HeLa cells. Placental alkaline phosphatase (PLAP), encoded by the ALPP gene, is produced by the fetal side of the placenta.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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