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Product datasheet for TP721056

Alkaline Phosphatase (ALPP) (NM_001632) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human alkaline phosphatase, placental (ALPP)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	Ile23-Asp506
Tag:	C-His
Predicted MW:	53.7 kDa
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Supplied as a 0.2 um filtered solution of 20mM Tris-Hcl, 150mM NaCl, 0.2mM CaCl2, 10% Glycerol, pH7.5
Endotoxin:	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
Storage:	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Stability:	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_001623
Locus ID:	250
UniProt ID:	P05187, B2R7C7
RefSeq Size:	2883
Cytogenetics:	2q37.1
RefSeq ORF:	1605
Synonyms:	ALP; ALPI; IAP; PALP; PLAP; PLAP-1

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Summary: The protein encoded by this gene is an alkaline phosphatase, a metalloenzyme that catalyzes the hydrolysis of phosphoric acid monoesters. It belongs to a multigene family composed of four alkaline phosphatase isoenzymes. The enzyme functions as a homodimer and has a catalytic site containing one magnesium and two zinc ions, which are required for its enzymatic function. One of the main sources of this enzyme is the liver, and thus, it's one of several indicators of liver injury in different clinical conditions. In pregnant women, this protein is primarily expressed in placental and endometrial tissue, however, strong ectopic expression has been detected in ovarian adenocarcinoma, serous cystadenocarcinoma, and other ovarian cancer cells. [provided by RefSeq, Aug 2020]

Protein Pathways: Folate biosynthesis, Metabolic pathways

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