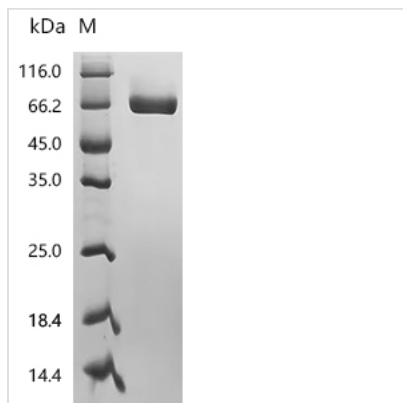




Recombinant Rat Alkaline phosphatase (Alpp), partial (Active)

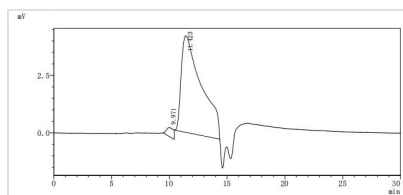
Product Code	CSB-MP6583RA
Abbreviation	Recombinant Rat Alpp protein, partial (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	D4ADM6
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 μm filtered PBS, 6% Trehalose, pH 7.4
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Biological Activity	Unit Definition: One unit is defined as the amount of enzyme required to cleave 1 nmol p-nitro-phenylphosphate (pNPP), in 1 minute at 37°C, pH 10.0. The specific activity is >8000 pmol/min/ug.
Purity	≥ 95% as determined by SDS-PAGE. ≥ 95% as determined by SEC-HPLC.
Sequence	LVPVEEENPAFWNRKAAEALAAKLLQPIQTSANNLIILMGDGMGVSTVTATRI LKGQQQGHLPETPLAMDRFPHMALSKTYNTDKQVPDSAGTGTAFLCGVKT NMKVIGLSAAARFNQCNTTGWNEVVSVMHRAKKAGKSVGVTTSVQHASP AGTYAHTVNRNWYSDAHMSTAALQEGCKDIAMQLISNTDIDVILGGGRKFMFP KGTPDQEYPTDPQQAGTRLDGRNLVQEWLAKHQGAQYVWNRTLIQASLNR SVTHLMGLFEPNDMKYNIDRDPTQDPSLAEMTEVAVHMLSRNPKGFYLFVEG GRIDHGHHEAIAYRALTEAVMFDSAVIDKADKLTSEKDTMIIVTADHSHVFSFGG YTQREASIFGLAPFKAGDGKSFTSILYGNPGYKLNNGIRADVTEEESSNPTYQ QQAAVPLSSETHSGEDVAIFARGPQAHLVHGVQEQQNYIAHVMAFAGCLEPYT DCGLAPPAGRS
Source	Mammalian cell
Target Names	Alpp
Expression Region	19-501aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	53.9 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Enzyme	Rat ALPP (CSB-MP6583RA)	0.00625 µg/well
Substrate	P-nitro-phenylphosphate (PNPP) (S0942, sigma)	0.1 mg/ml
Termination	0.2mol/L NaOH	50µl
Reaction system	/	100µl
Reaction conditions	37°C and 30min in dark	/
Buffer	100 mM 2-amino-2-methyl-1,3-propanediol-HCl, 5 mM MgCl ₂ pH 10.0	/
Enzyme activity unit (U/mg)	>8000 U/mg	/

Unit Definition: One unit is defined as the amount of enzyme required to cleave 1 nmol p-nitro-phenylphosphate (PNPP), in 1 minute at 37°C, pH 10.0. The specific activity is >8000 pmol/min/ug.



The purity of Alpp was greater than 95% as determined by SEC-HPLC

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.