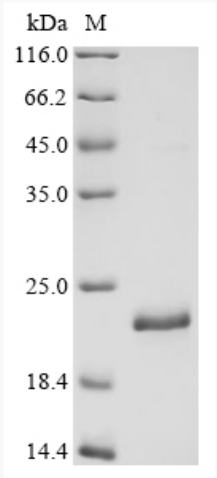
Datasheet

Product Name	Recombinant Saccharomyces cerevisiae Nucleoside diphosphate kinase(YNK1)
Catalog Number	**AAA18550**
Expression host	*Yeast*
Product Info	N-terminal 6xHis-tagged
Storage Buffer	20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 50% glycerol
Storage	Store at -20℃, for extended storage, conserve at -20℃ or -80℃.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4℃ for up to one week.
Relevance	Major role in the synthesis of nucleoside triphosphates other than ATP. The ATP gamma phosphate is transferred to the NDP beta phosphate via a ping-pong mechanism, using a phosphorylated active-site intermediate (PubMed:5793714). Required for repair of UV radiation- and etoposide-induced DNA damage (PubMed:18983998).
AA sequence	MSSQTERTFIAVKPDGVQRGLVSQILSRFEKKGYKLVAIKLVKADDKLLEQHY AEHVGKPFFPKMVSFMKSGPILATVWEGKDVVRQGRTILGATNPLGSAPGTIR GDFGIDLGRNVCHGSDSVDSAEREINLWFKKEELVDWESNQAKWIYE
References	"Approaching a complete repository of sequence-verified protein-encoding clones for Saccharomyces cerevisiae." Hu Y., Rolfs A., Bhullar B., Murthy T.V.S., Zhu C., Berger M.F., Camargo A.A., Kelley F., McCarron S., Jepson D., Richardson A., Raphael J., Moreira D., Taycher E., Zuo D., Mohr S., Kane M.F., Williamson J. LaBaer J. Genome Res. 17:536-543(2007)

Certificate of Analysis

Product Name	Recombinant Saccharomyces cerevisiae Nucleoside diphosphate kinase(YNK1)		
Catalog Number	**AAA18550**		
Expression host	*Yeast*		
Product Info	N-terminal 6xHis-tagged		
Buffer	20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 50% glycerol		
Batch Number	YA04823a6g5		
Nature	Saccharomyces cerevisiae YNK1-(AA 1-153)-**P36010**-Full Length		
Purification	Affinity purified using IMAC		
Recommended Storage	Short term	2 to 8 ℃, one week from the date of receipt	
	Long term	-20 to -80 ℃, six months from the date of receipt	
Form	Liquid		
Date of detection	2023.09.14		
Test Items	**Specifications**		**Results**
Appearance	Clear Solution		pass
Concentration	0.1-5 mg/ml, by the Bradford Method.		0.50 mg/ml
Purity	≥85%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		96%
Molecular Weight	Predicted band size: 21.2 kDa		Observed band size: 22 kDa

Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.
Aseptic Processing	Not done
Endotoxin Level	Untreated
Activity	Not tested
Conclusion	pass