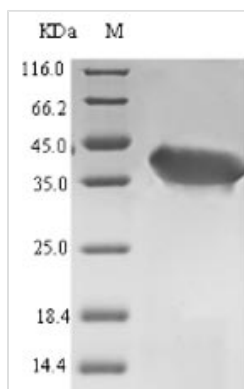




# Recombinant Laribacter hongkongensis Orotate phosphoribosyltransferase (pyrE)

<b>Product Code</b>	CSB-EP506933LNO
<b>Relevance</b>	Catalyzes the transfer of a ribosyl phosphate group from 5-phosphoribose 1-diphosphate to orotate, leading to the formation of orotidine monophosphate (OMP).
<b>Abbreviation</b>	Recombinant Laribacter hongkongensis pyrE protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	C1D6F5
<b>Alias</b>	Short name:OPRT Short name:OPRTase
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Laribacter hongkongensis (strain HLHK9)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MSDFRQDFIRFAVEEQVLRFGFVTKAGRSPSPYFFNAGLFNHHGASLLSLARFY ARSISESGIAFDMLFGPAYKGIVLAGATAMMLAEQGRDVPFAFNRKEAKDHGE GGTLIGAPLKGRVLIIDVISAGTSVRESVEIIRANGAEPAGVAIALDRMERGGQ ELSATQEVAQKFGLPVVAIASLDDLLGFLAGSPDLADNLTRVEAYRTQYGVR
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Target Names</b>	pyrE
<b>Expression Region</b>	1-213aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	38.9kDa
<b>Protein Length</b>	Full Length
<b>Image</b>	



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

## Description

Constructing a plasmid encoding the *Laribacter hongkongensis* (strain HLHK9) pyrE protein (1-213aa) is the initial step in the general approach to express the recombinant *Laribacter hongkongensis* (strain HLHK9) pyrE protein. The plasmid is then transformed into *e.coli* cells. Positive *e.coli* cells are selected and cultured, protein expression is induced, and cells are lysed. The protein is fused with a N-terminal 6xHis-SUMO tag. The resulting recombinant *Laribacter hongkongensis* (strain HLHK9) pyrE protein is then purified through affinity purification, and SDS-PAGE analysis is carried out to verify the presence and assess the purity of the protein. Its purity exceeds 90%.

## 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.