

# Recombinant Isoleucyl tRNA Synthetase (IARS) Instruction Manual

**SIPD003Hu01**

**Homo sapiens (Human)**

<b>Source</b>	Prokaryotic expression
<b>Host</b>	E.coli
<b>Endotoxin Level</b>	<1.0EU per 1µg (determined by the LAL method)
<b>Subcellular Location</b>	Cytoplasm
<b>Predicted Molecular Mass</b>	61.7KDa
<b>Accurate Molecular Mass</b>	62kDa(Analysis of differences refer to the manual)
<b>Residues &amp; Tags</b>	Met1~Arg500 with N-terminal His Tag
<b>Buffer Formulation</b>	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose.
<b>Traits</b>	Freeze-dried powder
<b>Purity</b>	> 97%
<b>Isoelectric Point</b>	5.6
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.

## SEQUENCE

MLQQVPENIN FPAEEEKILE FWTEFNCFQE CLKQSKHKPK FTFYDGPPFA  
TGLPHYGHIL AGTIKDIVTR YAHQSGFHVD RRFQWDCHGL PVEYEIDKTL  
GIRGPEDVAK MGITEYNNQC RAIVMRYSAE WKSTVSRLGR WIDFDNDYKT  
LYPQFMESVW WVFKQLYDKG LVYRGVKVMP FSTACNTPLS NFESHQNYKD  
VQDPSVFVTF PLEEDETVSL VAWTTTPWTL PSNLAVCVNP EMQYVKIKDV  
ARGRLLILME ARLSALYKLE SDYEILERFP GAYLKGKKYR PLFDYFLKCK  
ENGAFTVLVD NYVKEEEGTG VVHQAPYFGA EDYRVCMDFN IIRKDSL PVC  
PVDASGCFTT EVTDFAGQYV KDADKSIIRT LKEQGRLLVA TTFTHSYPFC  
WRSDTPLIYK AVPSWFVRVE NMVDQLLRNN DLCYWVPELV REKRFGNWLK  
DARDWTISRN RYWGTPIPLW VSDDFEEVVC IGSVAELEEL SGAKISDLHR

## USAGE

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## STORAGE

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

## STABILITY

The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

## Image

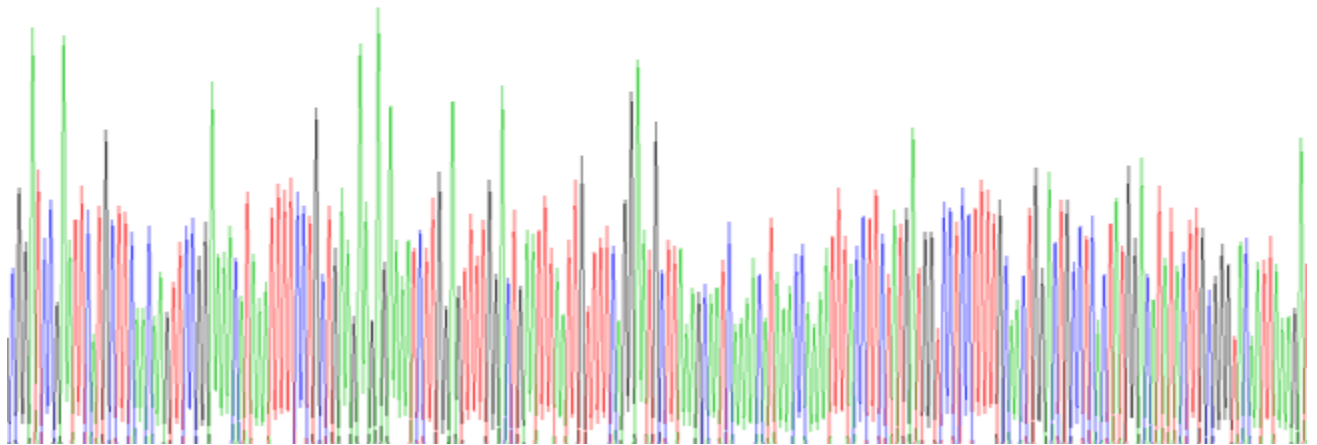


Figure. SDS-PAGE

## **[IMPORTANT NOTE]**

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.