SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Recombinant Isocitrate Dehydrogenase 1, Soluble (IDH1)

Catalog Number: SIPH474Mu01 **Spec: 50ug**

Product Name	Recombinant Isocitrate Dehydrogenase 1, Soluble (IDH1)
Catalog Number	SIPH474Mu01
Organism Species	Mouse
Residues	Ile99~Thr325 (Accession # O88844), with two N-terminal Tags, His-tag and GST-tag.
Host	E. coli
Subcellular Location	Cytoplasm.
Purity	>95%
Endotoxin Level	<1.0EU per 1μg (determined by the LAL method).
Formulation	Supplied as lyophilized form in 20mM Tris, 500mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Predicted isoelectric point	6.5
Predicted Molecular Mass	57.6kDa
Applications	SDS-PAGE; WB; ELISA; IP. (May be suitable for use in other assays to be determined by the end user.)

[USAGE]

Reconstitute in ddH2O.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8oC for one month.

Aliquot and store at -80oC for 12 months.

Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37oC for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

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[SEQUENCES]

The target protein is fused with two N-terminal Tags, His-tag and GST-tag, its sequence is listed below.

MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD GSTSGSGHHH HHHSAGLVPR GSTAIGMKET AAAKFERQHM DSPDLGTLEV LFQGPLGSEF-IR NILGGTVFRE AIICKNIPRL VTGWVKPIII GRHAYGDQYR ATDFVVPGPG KVEITYTPKD GTQKVTYMVH DFEEGGGVAM GMYNQDKSIE DFAHSSFQMA LSKGWPLYLS TKNTILKKYD GRFKDIFQEI YDKKYKSQFE AQKICYEHRL IDDMVAQAMK SEGGFIWACK NYDGDVQSDS VAQGYGSLGM MTSVLICPDG KTVEAEAAHG TVTRHYRMYQ KGQET

[REFERENCES]

1. Nekrutenko A., et al. (1998) Mol. Biol. Evol. 15:1674-1684. 2. Carninci P., et al. (2005) Science 309:1559-1563. 3. Park J., et al. (2013) Mol. Cell 50:919-930. 4. Rardin M.J., et al. (2013) Proc. Natl. Acad. Sci. U.S.A. 110:6601-6606.