

Recombinant human HIBCH protein

Catalog Number: ATGP1469

PRODUCT INFORMATION

Expression system

E.coli

Domain

33-386aa

UniProt No.

Q6NVY1

NCBI Accession No.

NP_055177

Alternative Names

3-hydroxyisobutyryl-CoA hydrolase mitochondrial, 3-hydroxyisobutyryl-CoA hydrolase, mitochondrial, HIBYLCOAH

PRODUCT SPECIFICATION

Molecular Weight

42.1 kDa (379aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.2M NaCl, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

HIBCH is the enzyme responsible for hydrolysis of both HIBYL-CoA and beta-hydroxypropionyl-CoA. Mutations in this gene have been associated with 3-hydroxyisobutyryl-CoA hydrolase deficiency. Alternative splicing results in multiple transcript variants. Recombinant human HIBCH protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHHH SGLVPRGSH MGSMDAAEE VLLEKKGCTG VITLNRPKFL NALTLNMIRQ IYPQLKKWEQ DPETFLIIK

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GAGGKAFCAG GDIRVISEAE KAKQKIAPVF FREEYMLNNA VGSCQKPYVA LIHGITMGGG VGLSVHGQFR VATEKCLFAM
PETAIGLFPD VGGGYFLPRL QGKLG YFLAL TGFRLKGRDV YRAGIATHFV DSEKLAMLEE DLLALKSPSK ENIASVLENY
HTESKIDRDK SFILEEHMDK INSCFSANTV EEIENLQQD GSSFALEQLK VINKMSPTSL KITLRQLMEG SSKTLQEVLT
MEYRLSQACM RGHDFHEGVR AVLIDKDQSP KWKPADLKEV TEEDLNNHFK SLGSSDLKF

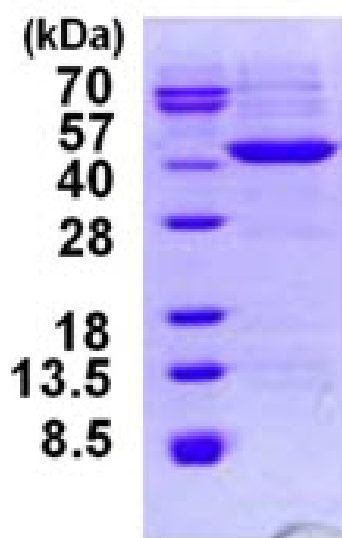
General References

Hendrickson, S.L. et al. (2010) PLoS ONE 5 (9), E12862

Wu, C. et al. (2007) Proteomics 7 (11), 1775-1785

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)