

GH test hu 20200512

Catalog Number: HU TEST

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-504aa

UniProt No.

Q6P6M7

NCBI Accession No.

NP_766078

Alternative Names

O-phosphoseryl-tRNA (Sec) selenium transferase, AA986712, D5Erttd135e, SecS, SLA

PRODUCT SPECIFICATION

Molecular Weight

57.7 kDa (527aa), confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid. In 20mM Tris-HCl buffer (pH 7.5) containing 1mM DTT, 0.2M NaCl, 50% Glycerol

Purity

> 90% by SDS - PAGE

Biological Activity

Measured in a cell proliferation assay using Nb2-11 Rat lymphoma cells. The ED50 range \leq 1 ng/ml.

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

Sepsecs, also known as O-phosphoseryl-tRNA (Sec) selenium transferase, catalyzes the final step of sec synthesis by converting O-phosphoseryl-tRNA (sec) to selenocysteinyl-tRNA (sec) using selenophosphate as the selenium donor. Also, this protein is considered a specific marker of autoimmune hepatitis. Recombinant mouse Sepsecs protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

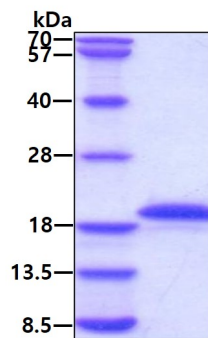
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 LAVMDSNNFL GNCVGEREG RVASALVARR HYRFIHGIGR SGDISAVQPK AAGSSLLNKI TNSLVLVNIK LAGVHSVASC
 FVVPMTGMS LTLCLTLRH KRPKAKYIHW PRIDQKSCFK SMVTAGFEPV VIENVLEGDE LRTDLKAVEA KIQELGPEHI
 LCLHSTTACF APRVPDRLEE LAVICANYDI PHVVNNAYGL QSSKCMHLIQ QGARVGRIDA FVQSLDKNFM VPVGGAIAG
 FNEPFIQDIS KMYPGRASAS PSLDVLITLL SLGCSGYRKL LKERKEMFVY LSTQLKKLAE AHNERLLQTP HNPISLAMTL
 KTIDGHHDKA VTQLGSMFLT RQVSGARAVP LGNVQTVSGH TFRGFMSHAD NYPCAYLNAA AAIGMKMQDV DLFIKRLDKC
 LNIVRKEQTR ASVVSADARN KAEDADIEEM ALKLDDVLGD VGQGPAL

General References

Palioura S., et al. (2009) Science. 325(5938):321-5.
 Yuan J., et al. (2006) Proc. Natl Acad Sci U.S.A. 103(50):18923-7.

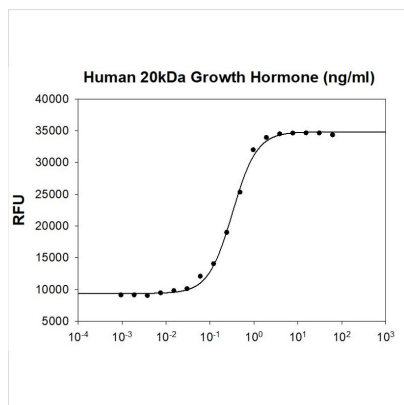
DATA

SDS-PAGE



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

Biological Activity



Human 20kDa Growth Hormone stimulates cell proliferation of the Nb2-11 Rat lymphoma cells. The ED50 range ≤ 1 ng/ml.