

Recombinant human HINT1 protein

Catalog Number: ATGP0327

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-126aa

UniProt No.

P49773

NCBI Accession No.

NP_005331

Alternative Names

Histidine triad nucleotide-binding protein 1, Histidine triad nucleotide-binding protein 1, HINT, PKCI-1, PRKCNH1, Histidine triad nucleotide-binding protein 1 Adenosine 5' monophosphoramidase, HINT 1, Histidine triad nucleotide binding protein 1, PKCI 1, PKCI1, Protein kinase C inhibitor 1, Protein kinase C interacting protein 1.

PRODUCT SPECIFICATION

Molecular Weight

13.8 kDa (126aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

Non-Tagged

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

HINT1, also known as Histidine triad nucleotide-binding protein 1, is a member of superfamily named for a near C-terminal HXHXHXX motif (H:Histidine, X:a hydrophobic amino acid) positioned at the alpha-phosphate of nucleotide substrates. This protein hydrolyzes adenosine 5'-monophosphoramidate substrates such as AMP-morpholidate, AMP-N-alanine methyl ester, AMP-alpha-acetyl lysine methyl ester and AMP-NH₂. Although it was

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originally thought to be a protein kinase C inhibitor and act as a haplod-insufficient tumor suppressor including spontaneous tumor formation in Hint+/- and Hint-/-, its actual physiologic function is not known. Recombinant human HINT1 protein was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

MADEIAKAQV ARPGGDTIFG KIIRKEIPAK IIFEDDRCLA FHDISPQAPT HFLVIPKKHI SQISVAEDDD ELLGHLMIIV
GKKCAADLGL NKGYRMVVNE GSDGGQSVYH VHLHVLGGRQ MHWPPG

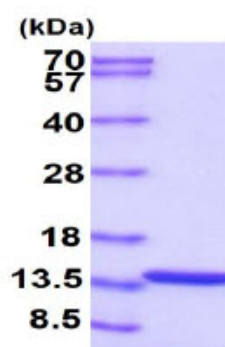
General References

Zhang YJ., et al. (2009), Cancer Lett, 275(2):277-84.

Pawel Bieganski., et al. (2002). J Biol Chem. 277(13):10852-10860

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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