

Recombinant Human Histidine Triad Nucleotide Binding Protein 1

Cat. No. HINT1-4397H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HINT1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 126 amino acids (1-126 a.a.) and having a molecular mass of 13.8 kDa. The HINT1 is purified by proprietary chromatographic techniques.
Species	Human
Source	Human
ProteinLength	1-126 a.a.
Description	HINT1, also known as Histidine triad nucleotide-binding protein 1 is part of the superfamily named for a near C-terminal HXHXHXX motif (H:Histidine, X:a hydrophobic amino acid) positioned at the γ -phosphate of nucleotide substrates. HINT1 hydrolyzes adenosine 5'-monophosphoramidate substrates such as AMP-morpholidate, AMP-N-alanine methyl ester, AMP-alpha-acetyl lysine methyl ester and AMP-NH ₂ . Though it was initially considered 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.
Form	The HINT1 solution contains 20mM Tris pH-8 & 10% glycerol.
Purity	Greater than 90.0% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered colorless solution.

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Amino acid sequence	MADEIAKAQV ARPGGDTIFG KIIRKEIPAK IIFEDDRCLA FHDISPQAPT HFLVIPKKHI SQISVAEDDD ESLLGHLMIIV GKKCAADLGL NKGYRMVVNE GSDGGQSVYH VHLHVLGGRQ MHWPPG.
Storage	HINT1 although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
GENE INFORMATION	
Gene Name	HINT1 histidine triad nucleotide binding protein 1 [Homo sapiens]
Official Symbol	HINT1
Synonyms	HINT1; histidine triad nucleotide binding protein 1; HINT; PKCI-1; PRKCNH1; FLJ30414; FLJ32340; histidine triad nucleotide-binding protein 1; OTTHUMP00000159244; protein kinase C inhibitor 1; adenosine 5"- monophosphoramidase; protein kinase C-interacting protein 1; Adenosine 5"- monophosphoramidase; EC 3.-.-.
Gene ID	3094
mRNA Refseq	NM_005340
Protein Refseq	NP_005331
MIM	601314
UniProt ID	P49773
Chromosome	5q31.2

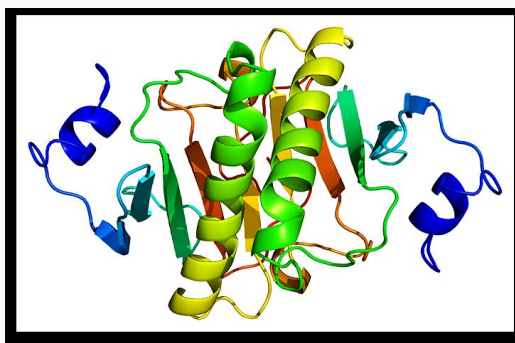
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Location**Function**

hydrolase activity; protein kinase C binding

**PDB rendering based
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