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## Product Data Sheet

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Product Name: HINT1 Human  
 Cat. No.: GP23642  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HINT; PKCI-1; PRKCNH1; FLJ30414; FLJ32340; HINT1; Histidine triad nucleotide-binding protein 1; Adenosine 5'-monophosphoramidase; Protein kinase C inhibitor 1; Protein kinase C-interacting protein 1; PKCI1.		
Amino Acid Sequence	MADEIAKAQV ARPGGDTIFG KIIRKEIPAK IIFEDDRCLA FHDISPQAPT HFLVIPKKHI SQISVAEDDD ELLGLHMIV GKKCAADLGL NKGYRMVVNE GSDGGQSVYH VHLHVLGGRQ MHWPPG.		
Formulation	The HINT1 solution contains 20mM Tris pH-8 & 10% glycerol.		

### Introduction

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  $\gamma$ -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<sub>2</sub>. 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<sup>+/-</sup> and Hint<sup>-/-</sup>, its actual physiologic function is not known.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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kDa. The HINT1 is purified by proprietary chromatographic techniques.

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