

Recombinant Human Histone Acetyltransferase 1, His-tagged

Cat. No. HAT1-569H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human HAT1 protein was expressed in *E.coli* with His tag and purified by conventional chromatography techniques. MW=40.1 kDa (343aa).

Species

Human

Source

E.coli

Protein Length

20-341 aa

Description

HAT1, also known as histone acetyltransferase 1, is a type B histone acetyltransferase (HAT) that is involved in the rapid acetylation of newly synthesized cytoplasmic histones, which are in turn imported into the nucleus for de novo deposition onto nascent DNA chains. Histone acetylation, particularly of histone H4, plays an important role in replication-dependent chromatin assembly. Specifically, this HAT can acetylate soluble but not nucleosomal histone H4 at lysines 5 and 12, and to a lesser degree, histone H2A at lysine 5.

Sequences

MGSSHHHHHH SSSLVPRGSH MKKLAEYKCN TNTAIELKLV RFPEDLENDI
 RTFFPEYTHQ LFGDDETAFG YKGLKILLY IAGSLSTMFR VEYASKVDEN
 FDCVEADDVE GKIRQIIPPG FCTNTNDFLS LLEKEVDFKP FGTLHTYSV
 LSPTGGENFT FQIYKADMTC RGFREYHERL QTFLMWFJET ASFIDVDDER
 WHYFLVFEKY NKDGATLFAT VGYMTVYNY VYPDKTRPRV SQMLILTPFQ
 GQGGAQLLE TVHRYYTEFP TVLDITAEDP SKSYVKLRDF VLVKLCQDLP
 CFSREKLMQG FNEDMAIEAQ QKFKINKQHA RRVYEILRLL VTD.

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Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol 1mM DTT.
Purity	> 90% by SDS – PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	HAT1 histone acetyltransferase 1 [Homo sapiens]
Synonyms	HAT1; histone acetyltransferase 1; KAT1; histone acetyltransferase type B catalytic subunit; EC 2.3.1.48
Gene ID	8520
mRNA Refseq	NM_003642
Protein Refseq	NP_003633
MIM	603053
UniProt ID	O14929
Chromosome Location	2q31.2-q33.1
Function	acyltransferase activity; histone acetyltransferase activity; protein binding; transferase activity

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