
Product Data Sheet

Product Name: HAT1 Human
 Cat. No.: GP21778
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 2.3.1.48; KAT1; histone acetyltransferase 1; Histone acetyltransferase type B catalytic subunit; HAT1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MKKLAEYKCN TNTAIELKLV RFPEDLENDI RTFFPEYTHQ LFGDDETAFG YKGLKILLYY IAGSLSTMFR VEYASKVDEN FDCVEADDVE GKIRQIIPPG FCTNTNDFLS LLEKEVDFKP FGTLHTYSV LSPTGGENFT FQIYKADMTC RGFREYHERL QTFLMWFIET ASFIDVDDER WHYFLVFEKY NKDGATLFAT VGYMTVYNYV VYPDKTRPRV SQMLILTPFQ GQGHGAQLE TVHRYYTEFP TVLDITAEDP SKSYVKLRDF VLVKLCQDLP CFSREKLMQG FNEDMAIEAQ QKFKINKQHA RRVYEILRLL VTD.		
Formulation	The HAT1 solution contains 20mM Tris-HCl pH-8, 1mM DTT, and 10% glycerol.		

Introduction

HAT1 is a type B histone acetyltransferase that participates 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, mainly of soluble histone H4 at "Lys-5" and "Lys-12" and acetylates histone H2A at "Lys-5". HAT1 takes part in replication-dependent chromatin assembly. HAT1 acetylates soluble but not nucleosomal histone H4 at lysines 5 and 12, and to a lesser degree, histone H2A at lysine 5. HAT1 has intrinsic substrate specificity that modifies lysine in recognition sequence GXGKXG.

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%

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

HAT1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 343 amino acids (20-341 a.a.) and having a molecular mass of 40.1 kDa. The HAT1 is fused to a 21 amino acid His Tag and purified by proprietary chromatographic techniques.

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