Product Data Sheet

Product Name:	MINA Human
Cat. No.:	GP23927
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	MYC Induced Nuclear Antigen; MINA53; MDIG; 60S RibosomalProtein L27a Histidine Hydroxylase; Mineral Dust-Induced Gene Protein; HistoneLysine Demethylase MINA Ribosomal Oxygenase MINA; Nucleolar Protein 52; NO52; ROX;Bifunctional Lysine-Specific Demethylase And Histidyl-Hydroxylase MINA; Myc-InducedNuclear Antigen; 53 KDa; Mineral Dust Induced Gene Protein; MYC-Induced NuclearAntigen; EC 1.14.11.-; Bifunctional lysine-specific demethylase andhistidyl-hydroxylase MINA.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSHMPKKAKPTGS GKEEGPAPCK QMKLEAAGGP SALNFDSPSS LFESLISPIK TETFFKEFWE QKPLLIQRDD PALATYYGSLFKLTDLKSLC SRGMYYGRDV NVCRCVNGKK KVLNKDGKAH FLQLRKDFDQ KRATIQFHQP QRFKDELWRIQEKLECYFGSLVGSNVYITP AGSQGLPPHY DDVEVFILQL EGEKHWRLYH PTVPLAREYSVEAEERIGRP VHEFMLKPGD LLYFPRGTIH QADTPAGLAH STHVTISTYQ NNSWGDFLLD TISGLVFDTAKEDVELRTGI PRQLLLQVES TTVATRRLSG FLRTLADRLE GTKELLSSDM KKDFIMHRLPPYSAGDGAEL STPGGKLPRLDSVVRLQFKD HIVLTVLPDQ DQSDETQEKM VYIYHSLKNS RETHMMGNEE ETEFHGLRFP LSHLDALKQI WNSPAISVKDLKLTTDEEKE SLVLSLWTEC LIQVV.		
Formulation	MINA protein solution (0.25mg/ml) containing 20mM Tris-HClbuffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

MYC Induced Nuclear Antigen, also known as MINA is an oxygenase whichcan function both as a histone lysine demethylase and a ribosomal histidine hydroxylase. MINA is involved in the demethylation of trimethylatedLys-9 on histone H3 (H3K9me3), leading to an increase in ribosomal RNAexpression. MINA also catalyzes thehydroxylation of 60S

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ribosomal protein L27a on His-39. In addition, MINA plays a significant role in cell growth andsurvival.MINA is implicated in ribosomebiogenesis, probably in the duration of the assembly process of pre-ribosomalparticles.

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

MINA Human Recombinant produced in E.Coli is a single,non-glycosylated polypeptide chain containing 485 amino acids (1-465 a.a) andhaving a molecular mass of 54.9kDa.

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