
Product Data Sheet

Product Name: SIRT5 Human
 Cat. No.: GP24595
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Sirtuin 5; NAD-Dependent Lysine Demalonylase AndDesuccinylase Sirtuin-5;Mitochondria; NAD-Dependent Protein Deacylase Sirtuin-5Mitochondrial; Silent Mating Type Information Regulation 2 (S.Cerevisiae)Homolog 5; NAD-Dependent Deacetylase Sirtuin-5; Regulatory Protein SIR2 Homolog5; SIR2-Like Protein 5; SIR2L5; Sirtuin Type 5; Sir2-Like 5; EC 3.5.1.-.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSARPSSSM ADFRKFFAKA KHIVIISGAG VSAESGVPTF RGAGGYWRKWQAQDLATPLA FAHNPSRVWE FYHYRREVMG SKEPNAGHRA IAECETRLGK QGRRVVITQ NIDELHRKAGTKNLLEIHGS LFKTRCTSCG VVAENYKSPI CPALSGKGAP EPGTQDASIP VEKLPRCEEA GCGLLRPHVWVWFGENLDPA ILEEVDRELA HCDLCLVVGTT SSVVYPAAMF APQVAARGVP VAEFNTETTP ATNRFRFHFQGPCGTTLPEA LACHENETVS		
Formulation	SIRT5 protein solution (0.5mg/ml) containing 20mMTris-HCl buffer (pH8.0), 0.15M NaCl, 1mM DTT and 30% glycerol.		

Introduction

SIRT5 belongs to the Sirtuin family of proteins, homologs to the yeast Sir2 protein. Sirtuin family members hold a sirtuin core domain and grouped into four classes. The protein encoded by this gene is included in class III of the sirtuin family. Human sirtuins functions were not yet determined; still, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies propose that human sirtuin could operate as intracellular regulatory protein with mono-ADP-ribosyltransferase activity.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

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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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

Background

SIRT5 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain topological domain containing 300 amino acids (34-310 a.a) and having a molecular mass of 32.5kDa. SIRT5 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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