
Product Data Sheet

Product Name: CDKN1A Human
 Cat. No.: GP22449
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cyclin-Dependent Kinase Inhibitor 1A (P21; Cip1); Melanoma Differentiation Associated Protein 6; Wild-Type P53-Activated Fragment 1; CDK-Interaction Protein 1; DNA Synthesis Inhibitor; CDK-Interacting Protein 1; CDKN1; P21Cip1/Waf1; MDA6; P21CIP1; CAP20; WAF1; CIP1; PIC1; P21; SDI1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSEPAGDVRQ NPCGSKACRR LFGPVDSEQL SRDCDALMAG CIQEARERWN FDFVTETPLE GDFAWERVGR LGLPKLYLPT GPRRGRDELG GGRRPGTSPA LLQGTAEEDH VDLSLSCTLV PRSGEQAEGS PGGPGDSQGR KRRQTSMTDF YHSKRRLIFS KRKP.		
Formulation	The CDKN1A solution contains 20mM Tris-HCl buffer (pH 8.0), 2M Urea, 0.1M NaCl and 10% glycerol.		

Introduction

CDKN1A holds a key part in the cellular response to DNA mutation. CDKN1A overexpression causes cell cycle to stop. When collaborating with CDK2 complexes, CDKN1A aids to prevent kinase activity and inhibits progression through G1/S. Nevertheless, CDKN1A can additionally increase assembly and activity in complexes of CDK4 or CDK6 and cyclin D. CDKN1A is a vital intermediary by which p53/TP53 facilitates its part as an inhibitor of cellular proliferation as a reaction to DNA impairment.

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

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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CDKN1A Human Recombinant produced in E. coli is a single polypeptide chain containing 184 amino acids (1-164) and having a molecular mass of 20.2 kDa. CDKN1A is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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