Product Data Sheet

Product Name:	PARP1 Human
Cat. No.:	GP22048
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ADPRT; ADPRT1; pADPRT; pADPRT-1; PARP; PARP-1; PPOL; Poly [ADP-ribose] polymerase 1; NAD(+) ADP-ribosyltransferase 1; Poly[ADP-ribose] synthase 1; PARP1.		
Amino Acid Sequence	MKSKLPKPVQ DLIKMIFDVE SMKKAMVEYE IDLQKMPLGK LSKRQIQAAY SILSEVQQAV SQGSSDSQIL DLSNRFYTLI PHDFGMKKPP LLNNADSVQA KAEMLDNLLD IEVAYSLLRG GSDDSSKDPI DVNYEKLKTD IKVVDRDSEE AEIIRKYVKN THATTHNAYD LEVIDIFKIE REGECQRYKP FKQLHNRRLL WHGSRTTNFA GILSQGLRIA PPEAPVTGYM FGKGIYFADM VSKSANYCHT SQGDPIGLIL LGEVALGNMY ELKHASHISK LPKGKHSVKG LGKTTPDPSA NISLDGVDVP LGTGISSGVN DTSLLYNEYI VYDIAQVNLK YLLKLKFNFK TSLW.		
Formulation	PARP1 solution containing 20mM Tris pH-8, 1mM DTT and 10% glycerol.		

Introduction

PARP1 takes part in the base excision repair pathway, by catalyzing the poly ADP-ribosyl of a restricted number of acceptor proteins involved in chromatin architecture and in DNA metabolism.. PARP1 mediates the poly ADP-ribosy of APLF and CHFR. PARP1 positively regulates the transcription of MTUS1 and negatively regulates the transcription of MTUS2/TIP150. PARP1 is a chromatin-associated enzyme, poly (ADP-ribosyl) transferase, which modifies various nuclear proteins by poly ADP-ribosyl. PARP1 takes part in the regulation of various significant cellular processes such as differentiation, proliferation, and tumor transformation and also in the regulation of the molecular events involved in the recovery of cell from DNA damage. PARP1 is a site of mutation in Fanconi anemia, and is involved in the pathophysiology of type I diabetes.

Stability

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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

PARP1 Human Recombinant produced in E.Coli is a single, non-glycosylated,polypeptide chain containing 354 amino acids (662-1014a.a.) and having a molecular mass of 39.6 kDa. PARP1 is purified by proprietary chromatographic techniques.