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## Product Data Sheet

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Product Name: APTX Human  
 Cat. No.: GP22753  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	AXA1; AOA; FHA-HIT; AOA11; ataxia 1; early onset with hypoalbuminemia1 EOAHA1; EAOH1; Forkhead-associated domain histidine triad-like protein; APTX; Aprataxin; AOA1; EAOH; EOAHA; MGC1072; FLJ20157.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWAGSMQD PKMQVYKDEQ VVVIKDKYPK ARYHWLVLPW TSISSLKAVA REHLELLKHM HTVGEKVIVD FAGSSKLRFR LGYHAIPSMS HVHLHVISQD FDSPCLKNKK HWNSFNTEYF LESQAVIEMV QEAGRVTVRD GPELLKLPL RCHECQQLLP SIPQLKEHLR KHWTQ.		
Formulation	The APTX solution contains 20mM Tris-HCl pH-7.5, 0.1M NaCl, 0.1mM PMSF and 20% glycerol.		

### Introduction

APT<sub>X</sub> is a DNA-binding protein which participates in single-strand DNA break repair, double-strand DNA break repair and base excision repair. APT<sub>X</sub> determines abortive DNA ligation intermediates created each at base excision sites, or while DNA ligases attempt to restore non-ligatable breaks induced by reactive oxygen species. APT<sub>X</sub> catalyzes the release of adenylate groups covalently linked to 5''-phosphate termini, resulting in the production of 5''-phosphate termini that can be efficiently rejoined. APT<sub>X</sub> hydrolyzes adenosine 5''-monophosphoramidate (AMP-NH(2)) and diadenosine tetraphosphate (AppppA), but with lower catalytic activity.

### 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.**

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

### Background

APTX Human Recombinant fused to a 37 amino acid His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 205 amino acids (1-168 a.a) and having a molecular mass of 23.9 kDa. The APTX is purified by proprietary chromatographic techniques.

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