

## 32-3219: APTX Recombinant Protein

**Alternative Name :** 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.

### Description

Source : Escherichia Coli. 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. APTX is a DNA-binding protein which participates in single-strand DNA break repair, double-strand DNA break repair and base excision repair. APTX 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. APTX 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. APTX hydrolyzes adenosine 5'-monophosphoramidate (AMP-NH(2)) and diadenosine tetraphosphate (AppppA), but with lower catalytic activity.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** The APTX solution contains 20mM Tris-HCl pH-7.5, 0.1M NaCl, 0.1mM PMSF and 20% glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWAGSMQD PKMQVYKDEQ VVVIKDKYPK  
ARYHWLVLPW TSISSLKAVA REHLELLKHM HTVGEKVVD FAGSSKLRFR LGYHAIPSMS HVHLHVISQD  
FDSPCLKNKK HWNSFNTEYF LESQAVIEMV QEAGRVTVRD GMPPELLKLPL RCHECQQLP SIPQLKEHLR  
KHWYQ.