

Product Data Sheet

Inhibitors • Screening Libraries • Proteins

FANCC Protein, Human (His-SUMO)

Cat. No.:	HY-P72190
Synonyms:	bA80I15.1; FA3; FAC; FACC; FANCC; FANCC_HUMAN; Fanconi anemia complementation group C; Fanconi anemia complementation group C protein; Fanconi anemia group C protein; Fanconi pancytopenia type 3; FLJ14675; Protein FACC
Species:	Human
Source:	E. coli
Accession:	Q00597 (M1-V558)
Gene ID:	2176
Molecular Weight:	Approximately 79.4 kDa

PROPERTIES

AA Sequence						
	MAQDSVDLSC	DYQFWMQKLS	VWDQASTLET	QQDTCLHVAQ		
	FQEFLRKMYE	ALKEMDSNTV	IERFPTIGQL	LAKACWNPFI		
	LAYDESQKIL	IWCLCCLINK	E P Q N S G Q S K L	NSWIQGVLSH		
	ILSALRFDKE	VALFTQGLGY	APIDYYPGLL	KNMVLSLASE		
	LRENHLNGFN	TQRRMAPERV	ASLSRVCVPL	ITLTDVDPLV		
	EALLICHGRE	PQEILQPEFF	EAVNEAILLK	KISLPMSAVV		
	CLWLRHLPSL	EKAMLHLFEK	LISSERNCLR	RIECFIKDSS		
	LPQAACHPAI	FRVVDEMFRC	ALLETDGALE	IIATIQVFTQ		
	CFVEALEKAS	KQLRFALKTY	FPYTSPSLAM	VLLQDPQDIP		
	RGHWLQTLKH	ISELLREAVE	DQTHGSCGGP	FESWFLFIHF		
	GGWAEMVAEQ	LLMSAAEPPT	ALLWLLAFYY	G P R D G R Q Q R A		
	Q T M V Q V K A V L	GHLLAMSRSS	SLSAQDLQTV	AGQGTDTDLR		
	APAQQLIRHL	LLNFLLWAPG	GHTIAWDVIT	LMAHTAEITH		
	EIIGFLDQTL	YRWNRLGIES	PRSEKLAREL	LKELRTQV		
Appearance	Lyophilized powder.					
Formerelation	Lucabilized from a 0.2 year calution of Tria based by ffor 50% Channel					
Formulation	Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.					
Endotovin Loval	of FU (see all descention of loss 1.01 see all a					
Endotoxin Level	<1 EU/µg, aeterminea by LAL methoa.					
Poconsititution						
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.					
Storage & Stability						
Storage & Stability	stored at -20 C for 2 years. After reconstitution, it is stable at 4 C for 1 week of -20 C for longer (with carrier protein). I					
	recommended to neeze aliquots at -20 C or -80 C for extended storage.					
Shinning	Room temperature in continental US-may yary elsewhere					
Sinbhing	Room temperature in continental 05,may vary elsewhere.					

DESCRIPTION

Background

FANCC protein, a crucial component of the Fanconi anemia (FA) complex, is implicated in DNA repair, potentially operating in postreplication repair or functioning within cell cycle checkpoints. It may play a vital role in the repair of interstrand DNA cross-links and contribute to the maintenance of normal chromosome stability. Upon induction by interferon-gamma (IFNG), FANCC may facilitate the activation of STAT1 by recruiting it to IFNGR1. As a part of the multisubunit FA complex, consisting of FANCA, FANCB, FANCC, FANCE, FANCF, FANCG, FANCL/PHF9, and FANCM, it potentially includes HSP70. Importantly, this complex is absent in individuals with Fanconi anemia. FANCC interacts with various proteins, including ZBTB32, STAT1 (especially upon IFNG induction), CDK1, and EIF2AK2. The interaction between FANCC variants and EIF2AK2 may lead to enhanced EIF2AK2 activation and subsequent cell death. These interactions underscore the multifaceted role of FANCC in cellular processes related to DNA repair, signaling, and maintenance of genomic stability.

Caution: Product has not been fully validated for medical applications. For research use only.

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