

FACA/FANCA Protein, Human (sf9, His)

Cat. No.:	HY-P76915
Synonyms:	Fanconi anemia group A protein; FAA; FACA; FANCA
Species:	Human
Source:	Sf9 insect cells
Accession:	O15360 (M1-C297)
Gene ID:	2175
Molecular Weight:	Approximately 35 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 20 mM Tris, 200 mM NaCl, pH 8.5, 20% Glycerol, 0.1% Triton, 1 mM TCEP. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	FANCA protein, an integral member of the Fanconi anemia (FA) complex, functions as a DNA repair protein with potential involvement in postreplication repair or cell cycle checkpoint activities. It plays a critical role in interstrand DNA cross-link repair and contributes to the maintenance of normal chromosome stability. As part of the multisubunit FA complex, which includes FANCA, FANCB, FANCC, FANCE, FANCF, FANCG, FANCL/PHF9, and FANCM, it is notably absent in individuals with Fanconi anemia. In collaboration with FANCF, FANCG, and FANCL, FANCA interacts with HES1, a crucial interaction for the stability and nuclear localization of FA core complex proteins. The complex formed by FANCA, FANCC, and FANCG may also incorporate EIF2AK2 and HSP70. Furthermore, FANCA directly interacts with FAAP20/C1orf86. These intricate interactions highlight FANCA's role in orchestrating the functions of the FA complex and emphasize its significance in DNA repair and genome stability maintenance.
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Caution: Product has not been fully validated for medical applications. For research use only.

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