Type-1A pilin/fimA Protein, E.coli (His-SUMO)

Cat. No.:	HY-P71504
Synonyms:	fimA; pilA; b4314; JW4277Type-1 fimbrial protein; A chain; Type-1A pilin
Species:	E.coli
Source:	E. coli
Accession:	P04128 (24A-182Q)
Gene ID:	948838
Molecular Weight:	Approximately 31.8 kDa

PROPERTIES

AA Sequence	AATTVNGGTV HFKGEVVNAA CAVDAGSVDQ TVQLGQVRTA SLAQEGATSS AVGFNIQLND CDTNVASKAA VAFLGTAIDA GHTNVLALQS SAAGSATNVG VQILDRTGAA LTLDGATFSS ETTLNNGTNT IPFQARYFAT GAATPGAANA DATFKVQYQ
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	Type-1A pilin, encoded by the fimA gene, is a key component of bacterial fimbriae or pili, which are polar filaments extending from the surface of the bacterium to lengths of 0.5-1.5 micrometers, numbering 100-300 per cell. These fimbriae play a crucial role in facilitating bacterial colonization of the epithelium of specific host organs. The fimA protein is integral to the structure and function of these fimbriae, enabling bacterial adhesion to host tissues and promoting interactions that are essential for successful colonization.

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

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