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## **Recombinant Human UPK1A Protein, N-His**

Catalog Number:	bs-105692P
Species:	Human
AA Seq:	117-232/258
Predicted MW:	15.66 kDa
Tags:	N-His
Purity:	>90% as determined by SDS-PAGE.
Purification:	AC
Form:	Lyophilized
Storage:	Lyophilized from a solution in PBS pH 7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1%
	Mannitol.
	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8°C for
	frequent use. Store at -20 to -80°C for twelve months from the date of receipt.
Background:	The asymmetric unit membrane (AUM) forms numerous plaques, which cover the apical
	surface of the urothelium. These plaques are thought to strengthen the urothelium and
	reduce the risk of rupturing during ladder distention. They are composed of four major
	integral membrane proteins called uroplakins (UP). The uroplakin family comprises UPIa,
	UPIb, UPII, and UPIII. Family members are conserved among several species, including
	human, mouse, rat, rabbit, dog, pig and sheep. UPIa and UPIb form tightly packed structures
	with UPII and UPIII, respectively. This pairing is required for normal urothelial plaque
	formation and is regulated by proteolytic processing of the uroplakin proteins. Uroplakins
	are expressed in normal urothelium and are used as specific markers of urothelial
	differentiation. They are also expressed in a majority of transitional cell carcinomas of the
	bladder (TCCs), which make the uroplakins a useful marker for detecting bladder cancer
	metastasis and for staging and monitoring chemotherapeutic response.