

HJURP Protein, Human (His-SUMO)

Cat. No.:	HY-P72226
Synonyms:	HJURP; FAKTS; FLEG1; URLC9; Holliday junction recognition protein; 14-3-3-associated AKT substrate; Fetal liver-expressing gene 1 protein; Up-regulated in lung cancer 9
Species:	Human
Source:	E. coli
Accession:	Q8NCD3 (M1-V748)
Gene ID:	55355
Molecular Weight:	Approximately 99.5 kDa

PROPERTIES

AA Sequence

MLGTLRAMEG	EDVEDDQLLQ	KLRASRRRFQ	RRMQRLIEKY
NQPFEDTPVV	QMATLTYETP	QGLRIWGGRL	IKERNEGEIQ
DSSMKPADRT	DGSVQAAAWG	PELPSHRTVL	GADSKSGEVD
ATSDQEE SVA	WALAPAVPQS	PLKNELRKY	LTQVDILLQG
A EYFECAGNR	AGR DVRVTPL	PSLASPAVPA	PGYCSRISRK
SPGDPAKPAS	SPREWDPLHP	SSTD MALVPR	NDSL SLQETS
SSSFLSSQPF	EDDDICNVTI	SDLYAGMLHS	MSRLLSTKPS
SII STKTFIM	QNWNSRRRHR	YKSRMNKTYC	KGARRSQRSS
KENFIPCSEP	VKGTGALRDC	KNVLDVSCRK	TGLKLEKAFL
EVNRPQIHKL	DPSWKERKVT	PSKYSSLIYF	DSSATYNLDE
ENRFRTLKWL	ISPVKIVSRP	TIRQGHGENR	QREIEIRFDQ
LHREYCLSPR	NQPRRMCLPD	SWAMNMYRGG	PASPGGLQGL
ETRRLSLPSS	KAKAKSLSEA	FENLGKRSLE	AGRCLPKSDS
SSSLPKTNPT	HSATRPQQT S	DLHVQGNSSG	IFRKS VSPSK
TLSVPDKEVP	GHGRNRYDEI	KEEFDK LHQK	YCLKSPGQMT
VPLCIGVSTD	KASMEVRYQT	EGFLGKL NPD	PHFQGFQKLP
SSPLGCRKSL	LGSTAI EAPS	STCVARA ITR	DGTRDHQFPA
KRPRLSE PQG	SGRQGN SLGA	SDGVDNTVRP	GDQGS S SQPN
SEER GENTS Y	RME EKSDFML	EKLET KSV	

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

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**

HJURP, a centromeric protein, assumes a pivotal role in the intricate process of incorporating and maintaining the histone H3-like variant CENPA at centromeres. Functioning as a specific chaperone for CENPA, HJURP is indispensable for the integration of newly synthesized CENPA molecules into nucleosomes at replicated centromeres. Its regulatory prowess extends to preventing premature DNA binding by the CENPA-H4 tetramer and inhibiting CENPA-H4 tetramerization. HJURP's direct interaction with Holliday junctions further underscores its multifaceted involvement in centromeric dynamics. In molecular partnerships, HJURP forms a heterotrimer with CENPA and histone H4, where it interacts with the CENPA-H4 dimer, preventing tetramerization. Additionally, HJURP engages in phosphorylation-dependent interactions with 14-3-3 family members, emphasizing its intricate regulatory connections within the cellular machinery.

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

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