
Product Data Sheet

Product Name: HERC5 Human
 Cat. No.: GP21787
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HERC5; HECT and RLD Domain Containing E3 Ubiquitin Protein Ligase 5; CEB1; Hect Domain and RLD 5; Cyclin-E-Binding Protein 1; CEBP1; HECT Domain and RCC1-Like Domain-Containing Protein 5; E3 ISG15--Protein Ligase HERC5; Probable E3 Ubiquitin-Protein Ligase HERC5; EC 6.3.2.- ; EC 6.3.2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSFDLTVRR NHLIEDVLNQ LSQFENEDLR KELWVSFSGE IGYDLGGVKK EFFYCLFAEM IQPEYGMFMY PEGASCMWFP VKPKFEKKRY FFFGVLCGLS LFNCNVANLP FPLALFKLL DQMP SLEDLK ELSPDLGKNL QTLLEDDEGDN FEEVFIHFN VHWDRNDTNL IPNGSSITVN QTNKRDYVSK YINYIFNDSV KAVYEEFRRG FYKMCDEDII KLFHPEELKD VIVGNTDYDW KTFEKNARYE PGYNSSHPTI VMFWKAFHKL TLEEKKKFLV FLTGTDR LQM KDLNNMKITF CCPESWNERD PIRALTCFSV LFLPKYSTME TVEEALQEAI NNNRGFG.		
Formulation	HERC5 protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

HECT and RLD Domain Containing E3 Ubiquitin Protein Ligase 5 (HERC5) is a member of the HERC family of ubiquitin ligases, found in a cluster of HERC family genes on chromosome 4. HERC5 is a protein with a HECT domain and 5 RCC1 repeats. The HERC5 protein localizes to the cytoplasm and perinuclear region and serves as an INF-induced E3 protein ligase that mediates ISGylation of protein targets. HERC5 exhibits antiviral activity towards HIV-1, influenza A virus and human papillomavirus. HERC5 is a major E3 ligase for ISG15 conjugation. HERC5 also serves as a positive regulator of innate antiviral response in cells induced by INF. Pro-inflammatory cytokines upregulate HERC5

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

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in endothelial cells. HERC5 is physically connected with polyribosomes, broadly modifies recently synthesized proteins in a cotranslational fashion.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

HERC5 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 367 amino acids (681-1024 a.a.) and having a molecular mass of 43kDa. HERC5 is fused to a 23 amino acid His-tag at N-terminus.

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