
Product Data Sheet

Product Name: HCST Human
 Cat. No.: GP23625
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Hematopoietic Cell Signal Transducer; DNAX-Activation Protein 10; Phosphoinositide-3-Kinase Adaptor Protein; Transmembrane Adapter Protein KAP10; Kinase Assoc Pro Of ~10kDa; Membrane Protein DAP10; PIK3AP; DAP10; KAP10; Kinase Assoc Protein.		
Amino Acid Sequence	ADPTTPGERS SLPAFYPGTS GSCSGCGSLS LPLEPKSCDK THTCPPCPAP ELLGGPSVFL FPPKPKDTLM ISRTPEVTCV VVDVSHEDPE VKFNWYVDGV EVHNAKTKPR EEQYNSTYRV VSVLTVLHQD WLNGKEYKCK VSNKALPAPI EKTISKAKGQ PREPQVYTLPSRDELTKNQVSLTCLVKGF YPSDIAVEWE SNGQPENNYK TTPPVLDSDG SFFLYSKLTV DKSRWQQGNV FSCSVMHEAL HNHYTQKSLS LSPGKHHHHH H.		
Formulation	HCST protein solution (1mg/ml) contains 10% glycerol & Phosphate Buffered Saline (pH 7.4).		

Introduction

HCST (Hematopoietic Cell Signal Transducer) is part of the DAP10 family. HCST is capable of being a part of an immunoreceptor complex. HCST takes a vital part in inducing cytotoxicity against MHC class I chain-associated MICA & target cells expressing cell surface ligands such as UL16-binding protein (ULBP) & MICB. HCST complex participates in proliferation as well as cell survival by activating T & NK cell responses.

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

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

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HCST produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 271 amino acids (20-48 a.a.) and having a molecular mass of 30.1kDa. (Molecular size on SDS-PAGE will appear at approximately 28-40kDa).HCST is expressed with a 242 amino acid hIlgG-His-tag at C-Terminus and purified by proprietary chromatographic techniques.

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