

---

## Product Data Sheet

---

Product Name: MCFD2 Human  
 Cat. No.: GP23899  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	SDNSF; LMAN1IP; Multiple coagulation factor deficiency protein 2; Neural stem cell-derived neuronal survival protein; MCFD2; F5F8D; DKFZp686G21263.		
Amino Acid Sequence	MASMTGGGQQM GRGSHMEEPA ASFSQPGSMG LDKNTVHDQE HIMEHLEGVI NKPEAEMSPQ ELQLHYFKMH DYDGNLLDG LELSTAITHV HKEEGSEQAP LMSEDELINI IDGVLRDDDK NNDGYIDYAE FAKSLQ.		
Formulation	The MCFD2 protein solution contains 20mM Tris-HCl, pH-7.5, 100mM NaCl and 10% glycerol.		

### Introduction

The MCFD2-LMAN1 complex forms an explicit cargo receptor for the ER-to-Golgi transport of selected proteins. MCFD2 is involved in the secretion of coagulation factors. MCFD2 is expressed by neural stem/progenitor cells of the hippocampus, and localized to region where neurogenesis persists throughout life. MCFD2 prevents NSC cell death and maintains stem cell characteristics. MCFD2 forms a complex with LAMN1 that facilitates the transport of coagulation factors V and VIII from the endoplasmic reticulum to the Golgi apparatus through an endoplasmic reticulum Golgi intermediate compartment. Mutations in the MCFD2 cause Factor V and Factor VIII combined deficiency.

### 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.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

MCFD2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 136 amino acids (27-146 a.a.) and having a molecular weight of 20.9kDa. The MCFD2 is fused to 16 a.a. T7-Tag at N-terminus and purified by proprietary chromatographic techniques.

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

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**