Recombinant human SDNSF/MCFD2 protein

Catalog Number: ATGP0455

PRODUCT INFORMATION

Expression system
E.coli

Domain
27-146aa

UniProt No.
Q8NI22

NCBI Accession No.
NP_644808

Alternative Names
Multiple coagulation factor deficiency 2, SDNSF, LMAN1IP, Multiple coagulation factor deficiency 2 MCFD 2, DKFZp686G21263, F5F8D, Neural stem cell derived neuronal survival protein, Multiple coagulation factor deficiency protein 2.

PRODUCT SPECIFICATION

Molecular Weight
15.1 kDa (136aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 100mM NaCl, 10% glycerol

Purity
> 90% by SDS-PAGE

Tag
T7-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Multiple coagulation factor deficiency 2 (MCFD2), also known as SDNSF. This is expressed by neural stem/progenitor cells of the hippocampus, and localized to region where neurogenesis persists throughout life. It has been found to prevent NSC cell death and to maintain stem cell characteristics. This protein forms a complex with LAMN1 that facilitates the transport of coagulation factors V and VIII from the endoplasmic reticulum to the

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Golgi apparatus via an endoplasmic reticulum Golgi intermediate compartment. Mutations in the MCFD2 gene may cause Factor V and Factor VIII combined deficiency. Recombinant human MCFD2, fused to T7-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

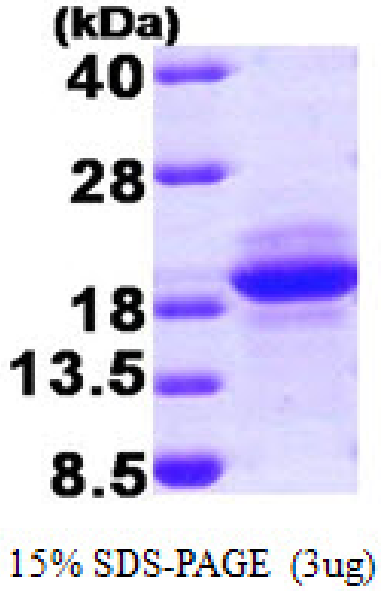
MASMTGGQQM GRGSHMEEPA ASFSQPGSMG LDKNTVHDQE HIMEHLEGVI NKPEAEMSPQ ELQLHYFKMH DYDGNNLLDG LELSTAITHV HKEEGSEQAP LMSEDELINI IDGVLRDDDK NNDGYIDYAE FAKSLQ

General References

Zhanq B., et al. (2005) Biol Chem. 280(27):25881-6.
Mohanty D., et al. (2005) Am J Hematol. 79:262-266.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.