Recombinant mouse sFRP-2/SFRP2 protein

Catalog Number: ATGP3973

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
25-295aa

UniProt No.
P97299

NCBI Accession No.
NP_033170.1

Alternative Names
sFRP-2, sFRP2, Secreted frizzled-related protein 2, Secreted apoptosis-related protein 1, SDF-5, Sdf5, sdf, SARP-1, SARP1, Protein SDF5, FRP-2secreted apoptosis related protein 1, AI851596

PRODUCT SPECIFICATION

Molecular Weight
32.1kDa (280aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 20% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-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
sFRP-2, also known as Secreted apoptosis-related protein 1, is a member of the SFRP family that contains a cysteine-rich domain homologous to the putative Wnt-binding site of Frizzled proteins. Soluble frizzled-related proteins (sFRPS) function as modulators of Wnt signaling through direct interaction with Wnts. sFRP-2 can exert

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either positive or negative effects on Wnt signaling. At physiological concentrations, it also inhibits BMP-induced effects. It plays a variety of roles during tissue morphogenesis including inhibition of the planar cell polarity pathway and myoblast and osteoblast differentiation. It is also expressed in multiple myeloma and glioma in which it promotes tumorigenicity. Recombinant mouse sFRP-2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

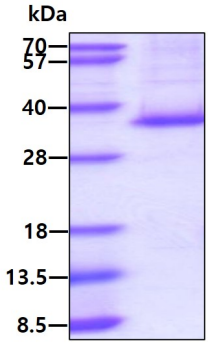
<ADP>LFLFGQP DFSYKRSNCK PIPANLQLCH GIEYQNMRLP NLLGHETMKE VLEQAGAWIP LVMKQCHPDT KKFLCSLFAP VCLDDLDETI QPCHSLCVQV KDRCAPVMSA FGFPWPDMLE CDRFPQDNDL CIPLASSDHL LPATEEAPKV CEACKTKNED DNDIMETLCK NDFALKIKVK EITYINRDTK IILETKSKTI YKLNGVSERD LKKSVLWLKD SLQCTCEEMN DINAPYLVMG QKQGGELVIT SVKRWQKGQR EFKRISRSIR KLQC<HHHHHH>

General References

Alfaro, M.P. et al. (2010) J. Biol. Chem. 285:35645-35653
He, W. et al. (2010) Proc. Natl. Acad. Sci. 107:21110-21115

DATA

SDS-PAGE



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