

## TECHNICAL DATA SHEET

# Recombinant Human sFRP-1 (Carrier-Free)

Catalog Number: 21-9082

## RPx-Pro™ Recombinant Protein

### PRODUCT INFORMATION

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Recombinant Human sFRP-1 (Carrier-Free)

#### DESCRIPTION

Secreted Frizzled Related Proteins (sFRPs) modulate WNT signaling by binding directly to WNT proteins in a manner that affects their receptor binding and signaling capabilities. sFRP-1 is a widely distributed protein that can bind directly to WNT1, WNT2, and possibly other WNT proteins, and generally exerts anti-proliferative effects consistent with activity as a WNT antagonist. Recombinant Human sFRP-1 is a glycosylated 283 amino acid protein containing a cysteine-rich Frizzled homologous domain.

#### MOLECULAR MASS

The calculated molecular weight of Recombinant Human sFRP-1 is 32.5 kDa.

#### AMINO ACID SEQUENCE

SEYDYVSFQS DIGPYQSGRF YTKPPQCVDI PADLRLCHNV GYKMMVLPNL LEHETMAEVK QQASSWVPLL NKNCHAGTQV FLCSLFAPVC  
LDRPIYPCRW LCEAVRDSCE PVMQFFGFYW PEMLKCDKFP EGDVCIAMTP PNATEASKPQ GTTVCPPCDN ELKSEAIIEH LCASEFALRM KIKEVKKENG  
DKKIVPKKKK PLKLGPIKKK DLKKLVLVLYK NGADCPCHQL DNLSHHFLIM GRKVKSQYLL TAIHKWDDKN KEFKNFMKKM KNHECPTFQS VFK

#### SOURCE

HeLa Cells

#### APPLICATIONS

Bioassay

#### PURITY

97 %

#### STORAGE

-20°C

#### PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

#### ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).

#### AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

#### CROSS REACTIVITY

Mouse

#### BIOACTIVITY

Determined by its ability to inhibit BMP-2 proliferation effect of ATDC-5 cells. The expected ED50 is 0.3–0.5 ug/ml.

#### RESEARCH AREAS

AIDS/HIV, Proliferation, Stem Cells & Differentiation, Angiogenesis/Cardiovascular, Apoptosis, Cancer

#### RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

#### REFERENCES

Cassuto J, Folestad A, Göthlin J, Malchau H, Kärrholm J. Bone. 2017 Nov 10;107:66-77. doi: 10.1016/j.bone.2017.11.004. Wan J, Hou X, Zhou Z, Geng J, Tian J, Bai X, Nie J. Free Radic Biol Med. 2017 Jul;108:280-299. doi: 10.1016/j.freeradbiomed.2017.03.012.

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