sFRP-1 Human HeLa cells

Product Data Sheet

Type: Recombinant
Source: HeLa cells
Species: Human
Other names: Soluble Frizzled Related Protein-1, Secreted Apoptosis Related Protein-2, SARP-2

Cat. No.:

RBG10150005	(5 µg)
RBG10150020	(20 µg)
RBG10150100	(100 µg)

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. It also inhibits apoptosis, and has been found to be down-regulated in many solid tumors, but up-regulated in uterine leiomyomas. Recombinant Human sFRP-1 is a glycosylated 283 amino acid protein containing a cysteine-rich Frizzled homologous domain. The calculated molecular weight of Recombinant Human sFRP-1 is 32.5 kDa.

Research topic

Apoptosis, Cardiovascular disease, Coronary artery disease, Oncology

Amino Acid Sequence

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SEYDYVSFQS DIGPYQSGRF YTKPPQCVDI PADLRLCHNV GYKKMVLPNL LEHETMAEVK QQASSWVPLL NKNCHAGTQV
FLCSLFAPVC LDRPIYPCRW LCEAVRDSCE PVMQFFGFYW PEMLKCDKFP EGDVCIAMTP PNATEASKPQ GTTVCPPCDN
ELKSEAIIEH LCASEFALRM KIKEVKKENG DKKIVPKKKK PLKLGPIKKK DLKKLVLYLK NGADCPCHQL DNLSHHFLIM
GRKVKSQYLL TAIHKWDKKN KEFKNFMKKM KNHECPTFQS VFK
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Source

HeLa cells

Purity

97%

Biological Activity

Determined by its ability to inhibit BMP-2 proliferation effect of ATDC-5 cells. The expected ED_{50} is 0.3-0.5 µg/ml.

Endotoxin

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

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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