## **Product Sheet**

## SFRP5, human recombinant

Catalog # S5-050; S5-250; S5-1000

**Description** SFRP5 (secreted Frizzled-related protein 5) is one of the 5 mammalian

secreted Frizzled-related proteins that contain a cysteine-rich domain (CRD) homologous to that in WNT receptor Frizzleds. Because the CRD binds to WNTs and competes with Frizzled, SFRPs are considered soluble

WNT inhibitors.

A recent study (*Ouchi*, et al. Science. 2010, 329: 454) showed that SFRP5 is an anti-inflammatory adipokine whose expression is perturbed in models of obesity and type 2 diabetes. SFRP5 exerts such effects by binding to WNT-5a secreted by inflammatory cells.

This product is the N-terminal CRD of human SFRP5 (aa1-176) expressed in **E. coli** with the following amino acid sequence:

MRAAAAGGGV	RTAALALLLG	ALHWAPARCE	EYDYYGWQAE	PLHGRSYSKP
PQCLDIPADL	PLCHTVGYKR	MRLPNLLEHE	SLAEVKQQAS	SWLPLLAKRC
HSDTQVFLCS	LFAPVCLDRP	IYPCRSLCEA	VRAGCAPLME	AYGFPWPEML
HCHKEPI DND	LCTAVOFGHT.	РАТАРР		

The protein in the inclusion body was purified by a series of chromatography and refolded through stepwise dialysis.

**Formulation** Lyophilized in a filtered solution of PBS with 100mM Arginine.

Reconstitution Before reconstitution, a brief spin is recommend to drive down any

material dislodged from the bottom of the tube. The lyophilized protein should be reconstituted in PBS or medium to a desired concentration.

should be reconstituted in 1 B5 of medium to a desired concentration.

**Stability** The lyophilized protein is stable for at least one year if stored at -80 degree

C. Reconstituted protein is stable for at least four weeks at 4 degree C, but should be stored in aliquots at -80 degree C for longer term. Avoid

repeated freeze and thaw.

**Purity** Greater than 95% as determined by SDS-PAGE analysis

**Biological Activity** The activity has not been determined.

Country of Origin USA

For Research Use Only. Not for Use in Human.

