



Protein Engineering Company

Product Information

Product name: Recombinant human saposin C

Catalog Number: SAPC-301

Product details

Human saposin C is small, heat-stable glycoprotein activator of lysosomal glycosphingolipid hydrolases that derive from a single precursor, prosaposin, by proteolytic cleavage. Of the prosaposin derived saposins, saposin C shows the highest amino acid identity/similarity to saposin A. Saposin C is an essential activator for glucocerebrosidase, the enzyme deficient in Gaucher disease (1, 2). It plays role in antigen presentation of lipids through CD1b to human T cells (3). Saposins are glycosylated in a native state; however, non-glycosylated recombinant saposins produced in *E. coli* retain their respective activation effects in functional *in vitro* assays (2).

Saposin C sequence

MSDVYCEVCEFLVKEVTKLIDNNKTEKEILDADFDMCKSLPKSLSEECQEVVDYTGSSILSILLEEVSPELVCSMLHLCS
GGGHHHHHH

Storage buffer: 10 mM Tris-HCl, pH 7.5, 100 mM NaCl, and 50% Glycerol

Storage is recommended at -20°C. Recombinant human SapC remains stable up to 1 year at -20°C from date of receipt.

Please avoid freeze-thaw cycles.

Caution: This product is for laboratory research use only. Not intended for household, human or animal diagnostic or therapeutic uses.

References

Qi, X. et al. Differential membrane interactions of saposins A and C: implications for the functional specificity. *J Biol Chem.* 2001 Jul 20; 276(29): 27010-7.

Qi, X. et al. Functional human saposins expressed in *Escherichia coli*. Evidence for binding and activation properties of saposins C with acid beta-glucosidase. *J Biol Chem.* 1994 Jun 17; 269(24):16746-53.

Winau, F. et al. Saposin C is required for lipid presentation by human CD1b. *Nature Immunology*, 2004, 5, 169–174.