

Protein Engineering Company

Product Description

Product name: Recombinant human saposin A Catalog # SAPA-301

Product details:

Recombinant human saposin A is produced in *E. coli* as an N-terminal His-tag fusion and purified by proprietary chromatographic techniques with subsequent removal of the tag trough a site-specific proteolytic cleavage. 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 (1). Saposins are used as scaffolding proteins in a versatile lipid nanoparticle system to reconstitute membrane proteins in a lipid environment (2, 3).

Saposin A sequence

SMGSLPCDICKDVVTAAGDMLKDNATEEEILVYLEKTCDWLPKPNMSASCKEIVDSYLPVILDIIKGEMSRPGEVCSAL NLCES

Storage buffer: 20 mM Tris-HCl, pH 7.5, 50 mM NaCl, and 50% Glycerol. Concentration: 1.0 - 2.0 mg/mL by A280 (E^{1%} 9.3). Purity: >90% by Coomassie staining.

Storage is recommended at -20°C for longer periods of time.

This product is for laboratory research use only.

References

1. 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.

2. Popovic, K. et al. Structure of saposin A lipoprotein discs. Proc Natl Acad Sci U S A. 2012 Feb 21; 109(8):2908-12.

3. Frauenfeld, J. et al. A saposin-lipoprotein nanoparticle system for membrane proteins. Nat Methods. 2016 Apr; 13(4): 345–351.