

Acid-cleavable Detergent for Better Mass Spectrometry Data

Eliminate detergent interference for more sensitive mass spec analysis of complex protein mixtures. PPS Silent Surfactant is an aggressive detergent that disrupts cell membranes, solubilizes hydrophobic proteins, and improves proteolytic digestion. PPS Silent Surfactant is readily hydrolyzed at low pH into easily removed, soluble by-products with no residual detergent properties. Sample preparation of complex protein mixture digests using PPS Silent Surfactant improves mass spec signal intensity and increases the number of discrete peaks visible on mass spectra.

PPS SILENT® SURFACTANT
PROTEIN PREP REAGENTS

PPS MEANS PYRIDINIUM PROPYL SULFONATE

The structural formula of PPS Silent Surfactant is not a secret. Here it is:

3-[3-(1,1-bisalkoxyethyl)pyridin-1-yl]propane-1-sulfonate

The critical micelle concentration (CMC) is 0.128 mM. Let us know if you need any additional information about PPS Silent Surfactant for your papers, protocols, or data records. We're happy to help.

NOTES FROM RESEARCHERS

“It clearly outperforms everything else we’ve used to generate peptides from complex protein mixtures.” —Mike MacCoss Ph.D., in report from product beta test

“PPS dramatically increased the number of ions detected to provide a more comprehensive molecular profile.” —Jeremy Norris Ph.D., et al., in *Analytical Chemistry*¹



PPS Silent Surfactant is available in 10 mg vials.

ADVANTAGES

- Improves MS analysis of complex protein mixtures
- Disrupts cell membranes
- Solubilizes hydrophobic proteins
- Improves enzymatic digestion
- Cleaves readily at low pH
- Cleavage products have no detergent properties and stay in solution for easy removal

ORDERING INFORMATION

PPS Silent Surfactant is available in 10 mg vials.

To place an order for PPS Silent Surfactant, please contact Protein Discovery by phone, fax, e-mail, or post to request a quote for the number of product vials you wish to purchase. Your quote will contain terms and conditions of sale, pricing, and estimated shipping and handling fees.

PART NUMBERS AND PRICING

DESCRIPTION	PART NUMBER	VIAL SIZE	# OF VIALS PER PACK	PRICE (US\$)
PPS Silent Surfactant	21010	10 mg	1	\$320
PPS Silent Surfactant	21011	1 mg	5	\$199

REQUEST A QUOTE

Contact Protein Discovery to request a quote for PPS Silent Surfactant:

Tel (865) 521-7400

Fax (865) 521-3548

E-mail sales@proteindiscovery.com



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REFERENCE

1. Norris J, Porter N, Caprioli R. Mass spectrometry of intracellular and membrane proteins using cleavable detergents. *Anal. Chem.* 2003, 75, 6642-6647