



One of the most challenging aspects of working with membrane proteins is the difficulty choosing which detergent may be best suited for your application. Membrane proteins evolved in nature into slightly different chemical environments inside their host lipid bilayer. Once extracted, they require a similar environment to remain stable. This makes finding a micelle with similar features challenging.

To select the optimum detergent or combination of detergents and reagents for a particular membrane protein application, often multiple detergents must be tested. Moreover, a detergent that is suitable for extraction may not be useful for storage of the purified protein or for functional studies conducted on the purified protein. To aid in the selection process, Anatrace® offers a wide variety of solid and solution based detergent kits to screen for the best fit.

Detergents like Dodecyl Maltopyranoside (D310), Decyl Maltopyranoside (D322), Octyl Glucopyranoside (O311), CHAPS (C316), LDAO (D360), and Lauryl Maltose Neopentyl Glycol (NG310) are often the first detergents to screen. For times when those detergents fail to stabilize your membrane protein, Anatrace enables you to screen large numbers of detergents quickly and cost-effectively. For example, if you need to find the right glucoside, our Glucopyranoside Detergent Kit (D399-G) contains six different glucosides with tail lengths between 6 (hexyl) and 12 (dodecyl) carbon lengths long. When you're not quite sure which detergent will work best for your project, Anatrace kits are there to help with multiple 1 gm sample solid kits or ampuled 10% solution kits based around a common theme.

PRODUCT NO.	DESCRIPTION	PRODUCT NO.	DESCRIPTION
D399-PM816	Amphipol Refold Detergent Kit	D399-NDK	Nonionic Detergent Master Kit (55 different non-ionic detergents)
D399-BIC	Bicelle Kit	D399-POP	Popular Detergent Kit
D399-C14	CYMAL® Detergent Kit	DSOL-ANP10	Anapoe® Kit (Peroxide-free polyoxyethylene detergents)
D399-F812	Fos-Choline® Detergent Kit	DSOL-C57	CYMAL Detergent Kit (5-7)
D399-G	Glucoside Detergent Kit	DSOL-F812	Fos-Choline Detergent Kit
D399-IDK	Ionic Detergent Master Kit	DSOL-POP	Popular Detergent Kit (6 most popular detergents—DDM, DM, OG, FC-12, CHAPS, and CYMAL-5)
D399-M611	Maltoside Detergent Kit I (6-11 carbon chain length)	DSOL-MK	Solution Master Detergent Kit (1 ml of 10% solution of 88 detergents)
D399-M1216	Maltoside Detergent Kit II (12-16 carbon chain length)		

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