

# Maltosides and Glucosides

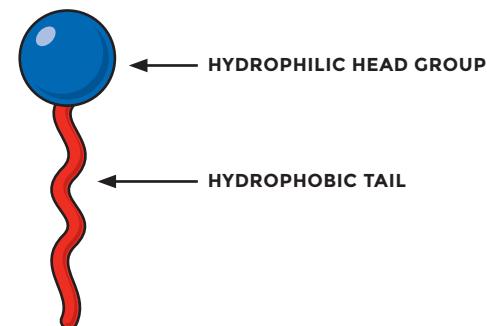


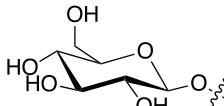
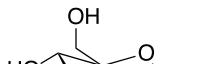
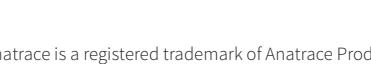
Dodecyl Maltoside is usually the first choice for working with membrane proteins and G protein-coupled receptors (GPCRs). Otherwise known as DDM, the detergent is part of the most popular family of detergents. Alkyl glycoside detergents are mostly derived from maltose or glucose. These detergents are mild and non-denaturing because they disrupt protein-lipid and lipid-lipid interactions rather than protein-protein interactions. The sugar serves as a polar head group with a non-polar alkyl chain attached. The hydrophilic head groups offer ample strength to extract proteins while still providing the capability to stabilize proteins in solution and promote crystal growth. These detergents are also well chronicled for their ability to stabilize other large macromolecules as well.

Membrane proteins and macromolecules are naturally found in a wide-range of chemical environments. When removed, there isn't one easy method for choosing which detergent may be best suited for a particular application. Anatrace® offers a broad suite of glucoside and maltoside detergents of varying alkyl chain lengths to help you screen for the best fit.

These micelle-producing detergents are perfect for both protein extraction and maintaining solubility and stability in aqueous environments. Glucoside and maltoside detergents have a long track record of crystallizing membrane proteins for x-ray crystallization studies or creating the necessary stable tertiary structure for NMR work. Anatrace detergents are the most cited detergents in journal articles pertaining to structure and function of membrane proteins.

We know your number one priority is making discoveries and publishing great work. Anatrace makes it easier to reach those heights.



HEAD GROUP	CARBON CHAIN LENGTH NAME	NUMBER	GLUCOSIDE	MALTOSIDE
	Hexyl	6	H305	H310
	Octyl	8	O311	O310
	Nonyl	9	N324	N330
	Decyl	10	D321	D322
	Undecylenyl	11	Custom–Please inquire	U310
	Dodecyl	12	D318	D310
	Tridecyl	13	Custom–Please inquire	T323
	Tetradecyl	14	Custom–Please inquire	T315
	Hexadecyl	16	H305	H310
	2,6-Dimethyl-4-Heptyl		Custom–Please inquire	HD325
	2-Propyl-1-Pentyl		Custom–Please inquire	P310

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