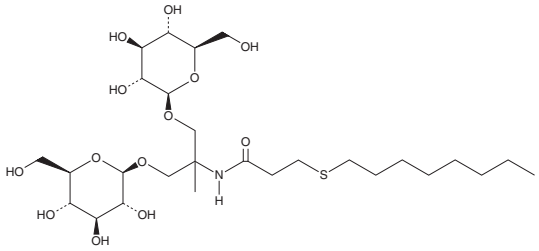
PRODUCT INFORMATION

ODG

Item No. 24782

CAS Registry No.: 2350271-85-9
Formal Name: N-(2-methyl-1,3-*bis*((3R,4S,5S-trihydroxy-6R-(hydroxymethyl)tetrahydro-2H-pyran-2R-yl)oxy)propan-2-yl)-3-(octylthio)propanamide
MF: $C_{27}H_{51}NO_{13}S$
FW: 629.8
Purity: ≥95%
Supplied as: A powder
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

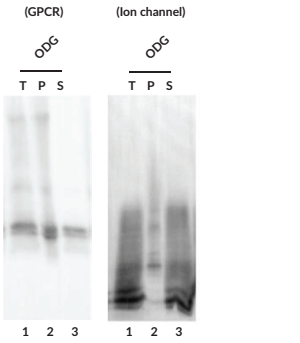
ODG is supplied as a powder. A stock solution may be made by dissolving the ODG in the solvent of choice, which should be purged with an inert gas. ODG is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of ODG in ethanol and DMSO is approximately 10 mg/ml and approximately 2 mg/ml in DMF

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of ODG can be prepared by directly dissolving the powder in aqueous buffers. The solubility of ODG in PBS, pH 7.2, is approximately 2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

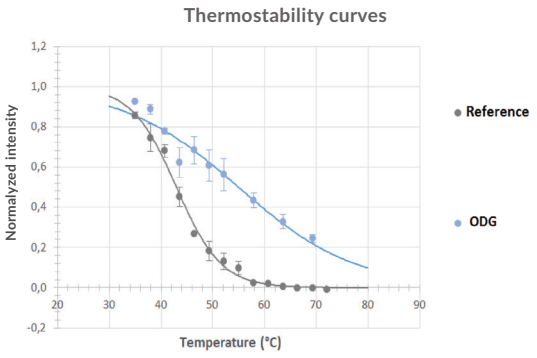
Description

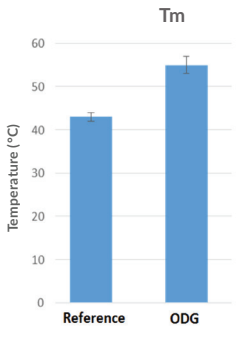
ODG is a detergent used to solubilize membrane proteins. It has a critical micelle concentration (CMC) of greater than 10 mM.

Images



Membrane proteins solubilization. The 2 targets were extracted fro membranes (GPCR) or mammalian membranes (ion channel) by ODG reagent at 10-fold the critical micelle concentration (CMC). solubilization, samples were centrifuged at 100,000 g. Proteins from (P) and supernatants (S) were separated on a 4-15% *Tris*-glycine SDS- transferred to PVDF membrane and immunodetected with a sp antibody. T = total, P = pellet, S = supernatant.





Stabilization of GPCR target. The GPCR protein was extracted using either reference detergent or ODG and heated at different temperatures for 30 min. After centrifugation at 20,000 g for 40 min, samples were separated on a 4-15% *Tris*-glycine SDS-PAGE, transferred to PVDF membrane and immunodetected with a specific antibody. Band intensity was measured and the resulting graph allowed Tm estimation.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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