

## TECHNICAL DATA SHEET – ODG

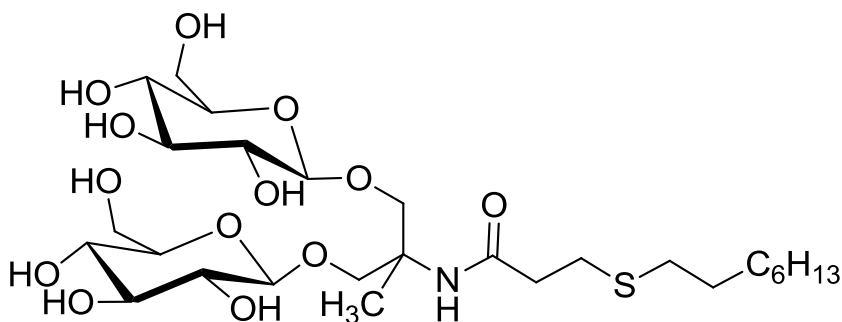
### ODG

2019

*N*-(2-methyl-1,3-bis(*O*-β-*D*-Glucose)propan-2-yl)-3-(octylthio)propanamide

#### Information

<b>Compound Name</b>	ODG	<b>Physical state</b>	White powder
<b>Catalogue Number</b> <i>(check availability on CALIXAR's website)</i>	ODG_100MG, ODG_250MG, ODG_500MG, ODG_1G	<b>Purity (HPLC, 214nm)</b>	≥95%
<b>Molec. Formula</b>	C <sub>27</sub> H <sub>51</sub> NO <sub>13</sub> S	<b>Retention time (RP<sub>18</sub> HPLC)<sup>b</sup></b>	t <sub>R</sub> = 12.9 min
<b>CAS</b>	nd	<b>CMC</b>	>10 mM
<b>MW</b>	629.8 g/mol	<b>Exact Mass</b>	629.3081
<b>pKa</b>	na		
<b>Percent composition</b>	C, 51.49; H, 8.16; N, 2.22; O, 33.03; S, 5.09		
<b>Stability</b>	Store in <-20°C freezer for up to one year		
<b>Solubility</b>	Soluble in water (0.5M), methanol and DMSO.		
<b>Structure</b>			



#### References

- 1- Abia M et al. *J Colloid Interface Sci* 445: 127 (2015)
- 2- Abia M et al. *J Org Chem* 73: 8142 (2008).
- 3- Breyton C et al. *J Biol Chem* 288: 30763 (2013)
- 4- Abia M et al. *J Fluorine Chem* 134: 63 (2012).
- 5- Guillet P. et al *J Langmuir* (2019)



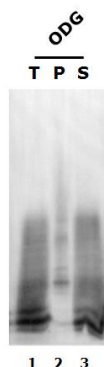
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### Biochemical Validation Data

**Target 1  
(GPCR)**



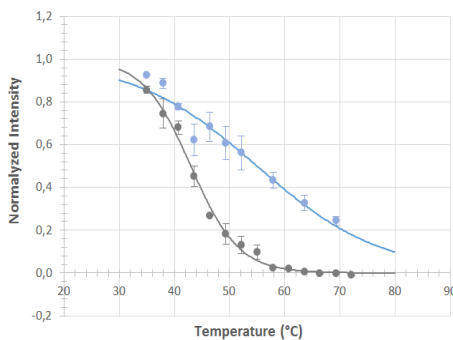
**Target 2  
(Ion channel)**



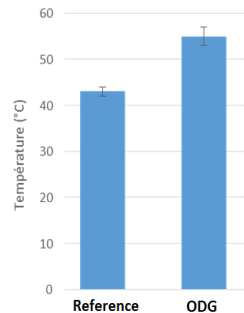
#### Membrane proteins solubilization.

The 2 targets were extracted from Sf9 membranes (GPCR) or mammalian membranes (ion channel) by using ODG reagent at 10-fold the critical micelle concentration (cmc). After solubilization, samples were centrifuged at 100000g. Proteins from pellets (P) and supernatants (S) were separated on a 4-15% Tris-glycine SDS-PAGE, transferred to PVDF membrane and immunodetected with a specific antibody.  
T = total, P = pellet, S = supernatant.

**Thermostability curves**



**T<sub>m</sub>**



#### 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 20000g 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 T<sub>m</sub> estimation.

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