TECHNICAL DATA SHEET – ODG

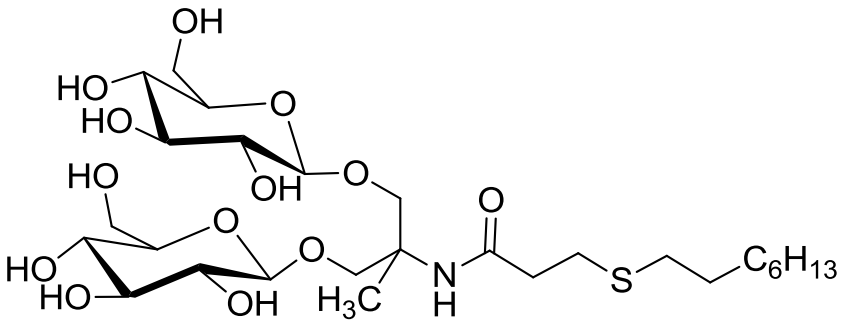
ODG

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

2018

Information

Compound Name	*ODG*	**Physical state**	*White powder*
Catalogue Number	*ODG_250MG, ODG_500MG, ODG_1G*	**Purity (HPLC, 214nm)**	*≥95%*
Molec. Formula	$C_{27}H_{51}NO_{13}S$	**Retention time (RP_{18} HPLC)** [b]	t_R = *12.9 min*
CAS	*nd*	**CMC**	*>10 mM*
MW	*629.8 g/mol*	**Exact Mass**	*629.3081*
pKa	*na*		
Percent composition	C, 51.49; H, 8.16; N, 2.22; O, 33.03; S, 5.09		
Stability	*Store in <-20°C freezer for up to one year*		
Solubility	*Soluble in water (0.5M), methanol and DMSO.*		
Structure			



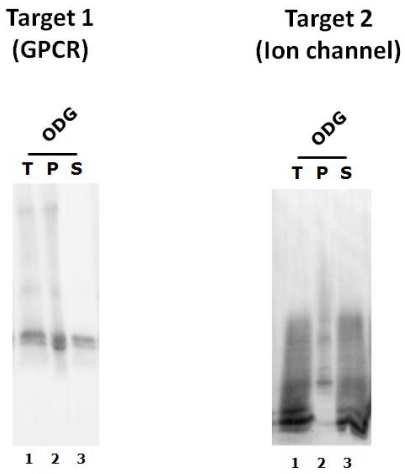
References

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

CALIXAR SAS – Share Capital of 118 554 € - SIRET 530 424 670 00020
60 avenue Rockefeller – 69008 Lyon - FRANCE
Tel: + 33 (0)481 076 460 - Fax: +33 (0)481 076 469 - Email: contact@calixar.com
Web: http://www.calixar.com

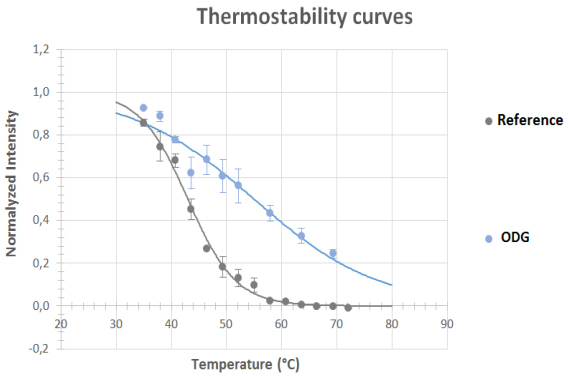
TECHNICAL DATA SHEET – ODG

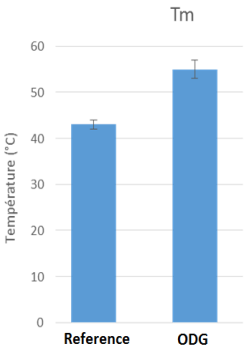
Biochemical Validation Data



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.





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 Tm estimation.

Restricted use: Limited Use Label License
The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product and progeny, to perform internal research and development for the sole benefit of the purchaser.

Safety: Not known as an hazardous substance or mixture. General industrial hygiene practices must be followed as the use of adapted personal protective equipment for skin and body.

Technical support
For additional product and technical information email our Technical Support team at contact@calixar.com.

Limited product warranty
TO THE EXTENT ALLOWED BY LAW, CALIXAR WILL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, MULTIPLE OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THIS DOCUMENT, INCLUDING YOUR USE OF IT.

CALIXAR SAS – Share Capital of 118 554 € - SIRET 530 424 670 00020
60 avenue Rockefeller – 69008 Lyon - FRANCE
Tel: + 33 (0)481 076 460 - Fax: +33 (0)481 076 469 - Email: contact@calixar.com
Web: http://www.calixar.com