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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

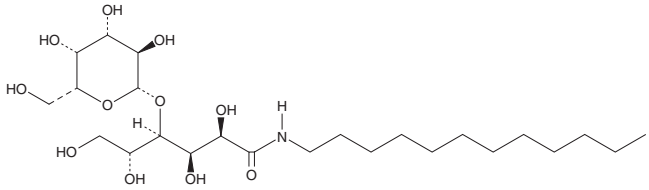
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

DDLAC

Item No. 24785

CAS Registry No.: 69313-68-4
Formal Name: N-dodecyl-4-O-β-D-galactopyranosyl-D-gluconamide
MF: $C_{22}H_{47}NO_{11}$
FW: 525.6
Purity: ≥95%
Supplied as: A powder
Storage: -20°C
Stability: ≥1 year



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

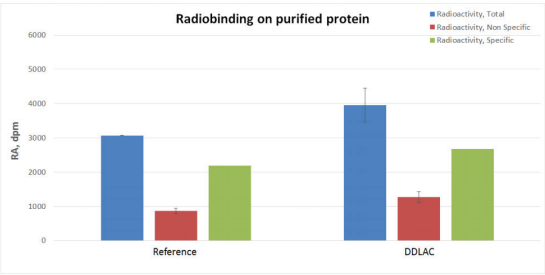
Laboratory Procedures

DDLAC is supplied as a powder. A stock solution may be made by dissolving the DDLAC in the solvent of choice. DDLAC is soluble in organic solvents such as methanol and DMSO, which should be purged with an inert gas. DDLAC is also soluble in water at a concentration of approximately 1.25 mM. We do not recommend storing the aqueous solution for more than one day.

Description

DDLAC is a detergent synthesized from lactobionic acid.[1,2] It can be used to stabilize membrane proteins and has a critical micelle concentration (CMC) of 0.25 mM.

Image



Binding of radioligand on GPCR protein, purified in reference detergent with or without addition of DDLAC as an additive.

Purified protein was incubated with radioligand in absence (total, blue bars) or presence (Non Specific signal, red bars) of an excess of cold ligand. After filtration on GF/C membranes and washing, scintillation agent was added and radioactivity was detected using a Microbeta2. Specific radioactivity (green bars) corresponds to (total signal) – (non-specific signal).

References

1. El Ghoul, M., Escoula, B., Rico, I., *et al. J. Fluorine Chem.* **59(1)**, 107-112 (1992).
2. Lebaupain, F., Salvay, A.G., Oliver, B.B., *et al. Langmuir* **22(21)**, 8881-8890 (2006).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM