



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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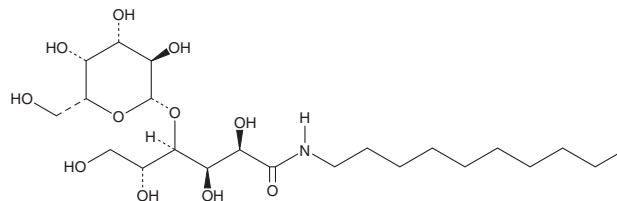
# PRODUCT INFORMATION



## DLAC

Item No. 24780

CAS Registry No.: 70803-56-4  
Formal Name: N-decyl-4-O-β-D-galactopyranosyl-D-gluconamide  
MF: C<sub>22</sub>H<sub>43</sub>NO<sub>11</sub>  
FW: 497.6  
Purity: ≥97%  
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

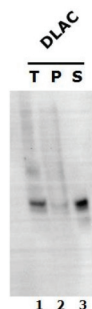
DLAC is supplied as a powder. A stock solution may be made by dissolving the DLAC in the solvent of choice. DLAC is soluble in organic solvents such as methanol and DMSO, which should be purged with an inert gas. DLAC is also soluble in water at a concentration of approximately 65 mM. We do not recommend storing the aqueous solution for more than one day.

### Description

DLAC is a detergent synthesized from lactobionic acid.<sup>1,2</sup> It can be used to solubilize membrane proteins and has a critical micelle concentration (CMC) of 1.3 mM.

### Images

Target 1  
(GPCR)



Target 2  
(Transporter)

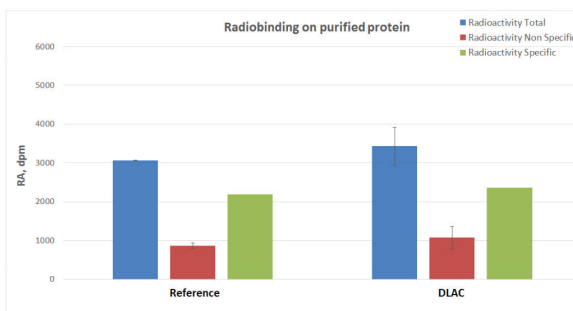


Target 3  
(Ion channel)



Membrane proteins solubilization.

The 3 targets were extracted from Sf9 membranes (GPCR), E. coli membranes (Transporter) and mammalian membranes (ion channel) by using DLAC 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.



Binding of radioligand on GPCR protein, purified in reference detergent or in DLAC.

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 Ghouli, 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).

#### 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.

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