

Product Data Sheet

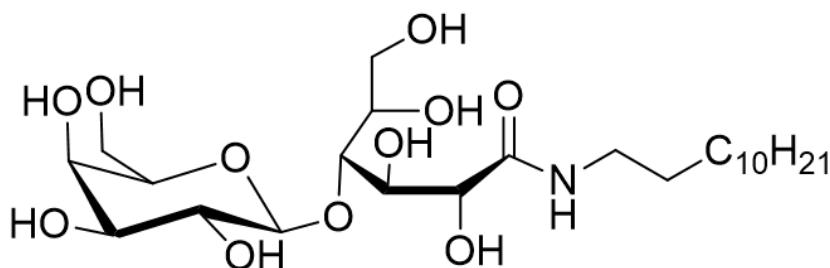
DDLAC

Information

PRODUCT DETAILS

Compound Name	DDLAC
Catalog Number	40-S201P-250MG
Category	Solubilizing Reagent
Physical State	White powder
Purity (HPLC, 214 nm)	98%
Molecular Formula	C ₂₄ H ₄₇ NO ₁₁
Retention time (RP ₁₈ HPLC)	15.04 min
CAS	n/a
CMC	0.25 mM
MW	525.6 g/mol
Exact Mass	525.3149 g/mol
pKa	n/a
Percent Composition	C, 54.84; H, 9.01; N, 2.66; O, 33.48
Stability	Store at -20 °C, out of direct light for a long-term storage
Solubility	Soluble in methanol, DMSO and water (1.1mM)

Structure



Recommendations for Use

For membrane proteins solubilization, Eurofins CALIXAR proprietary mild detergents are typically used at a final concentration of 20 mM. This concentration over 2x CMC (critical micelle concentration) ensures micelles formation and enough detergent to solubilize isolated membranes at a final total protein concentration of 5 mg/mL.

Biochemical Validation

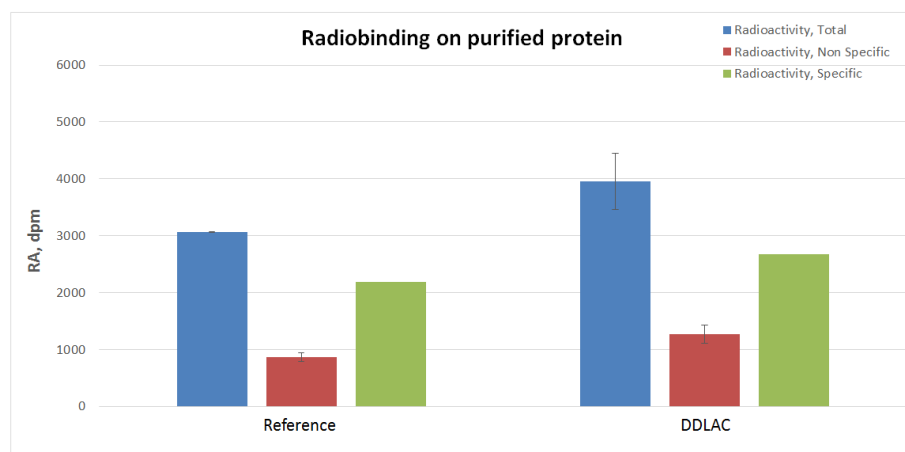


Figure 1: Binding of radioligand on GPCR protein, purified in reference detergent with or without addition of DDLAC as an additive.

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

- Lebaupain et al., Langmuir, 2006, 22 (21), pp 8881–8890

Additional Information

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 a 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

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