

TECHNICAL DATA SHEET – CALXGLUK

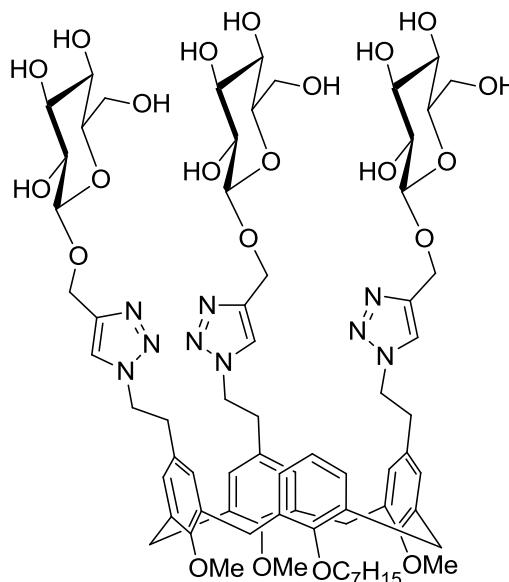
CALXGLUK

5,11,17-tris{2-[4-(β-D-glucopyranosyl)-1H-1,2,3-triazol-1-yl]ethyl}-25-monoheptoxy-26,27,28-trimethoxycalix[4]arene

2019

Information

Compound Name	CALXGLUK	Physical state	<i>Beige powder</i>
Catalogue Number <i>(check availability on CALIXAR's website)</i>	CALXGLUK_10MG, CALXGLUK_50MG, CALXGLUK_100MG	Purity (HPLC, 280nm)	<95%
Molec. Formula	$C_{71}H_{95}N_9O_{22}$	Retention time (RP₁₈ HPLC)^a	$t_R = 13.4 \text{ min}$
CAS	nd	CMC	0.025 mM
MW	1426.5 g/mol	Exact Mass	1425.6592
pKa	na		
Percent composition	C, 59.78; H, 6.71; N, 8.84; O, 24.67		
Stability	<i>Store in <-20°C freezer for up to one year</i>		
Solubility	<i>Soluble in water (2.5mM), methanol and DMSO.</i>		
Structure			

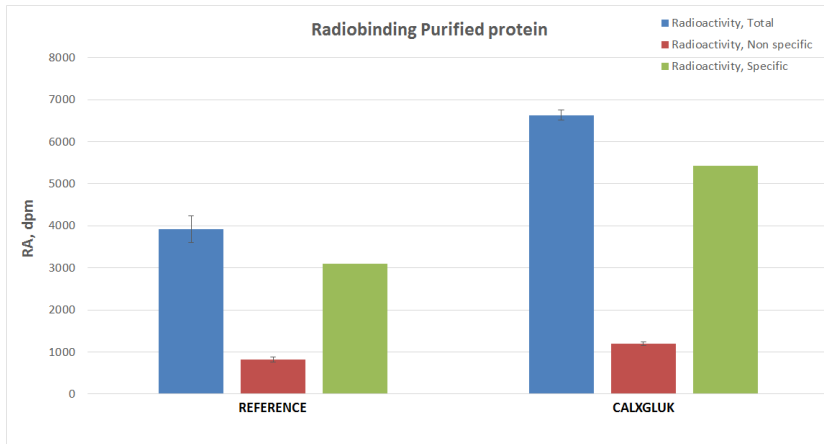


References

1- Proprietary patent: "Synthesis of amphiphilic calixarene glycoside detergents and use of same for extracting and stabilizing native functional membrane proteins"; WO 2015158575 A1 ; Publication date: Oct 22, 2015.

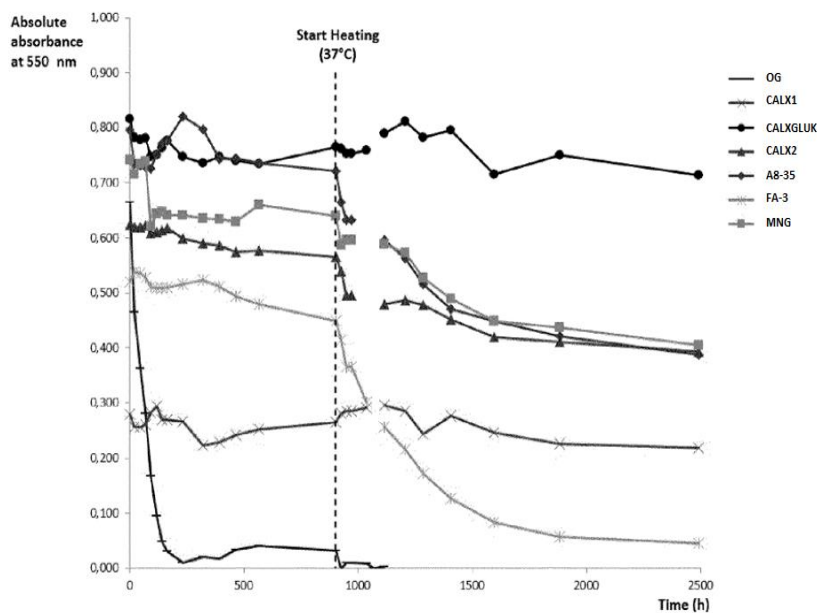
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Biochemical Validation Data



Binding of radioligand on target protein, purified in reference detergent with or without CALXGLUK 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).



Stabilization of the Bacteriorhodopsin

After solubilization and purification in OG, reagents were added as stabilizers.

Bacteriorhodopsin's activity was monitored over time at first 25°C and then 37°C by measuring absorbance at 560nm.

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