

## TECHNICAL DATA SHEET – CALXGLUK

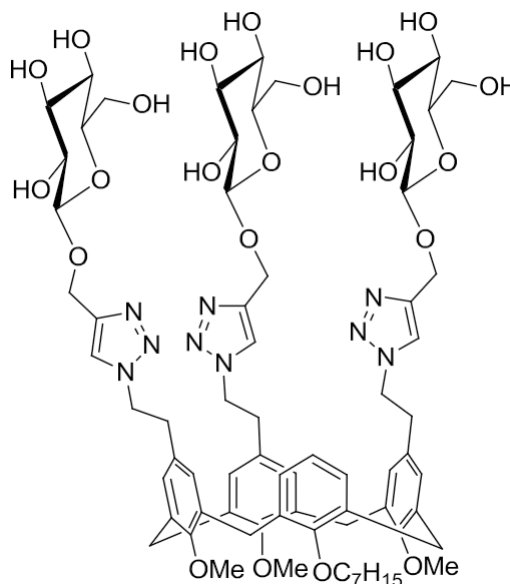
### CALXGLUK

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

2021

#### Information

<b>Compound Name</b>	CALXGLUK	<b>Physical state</b>	Beige powder
<b>Catalogue Number</b>	CALXGLUK_10MG, CALXGLUK_50MG, CALXGLUK_100MG	<b>Purity (HPLC, 280nm)</b>	<95%
<b>Molec. Formula</b>	C <sub>71</sub> H <sub>95</sub> N <sub>9</sub> O <sub>22</sub>	<b>Retention time (RP<sub>18</sub> HPLC)<sup>a</sup></b>	t <sub>R</sub> = 13.4 min
<b>CAS</b>	nd	<b>CMC</b>	0.025 mM
<b>MW</b>	1426.5 g/mol	<b>Exact Mass</b>	1425.6592
<b>pKa</b>	na		
<b>Percent composition</b>	C, 59.78; H, 6.71; N, 8.84; O, 24.67		
<b>Stability</b>	Store in <-20°C freezer		
<b>Solubility</b>	Soluble in water (0.025mM), methanol and DMSO.		
<b>Structure</b>			

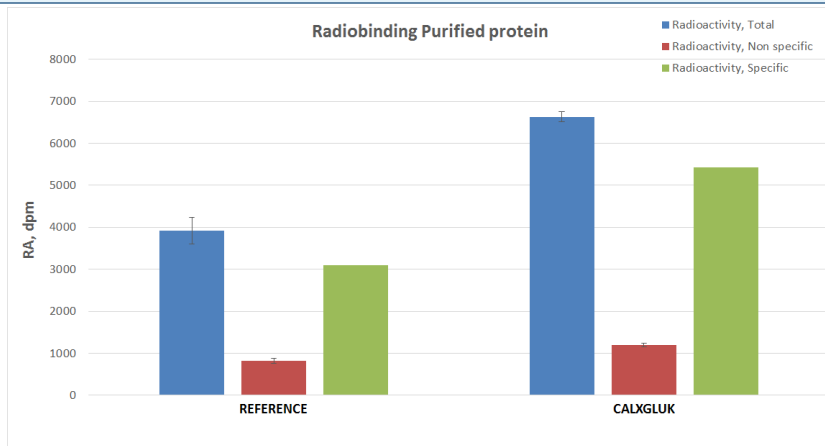


#### References

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.

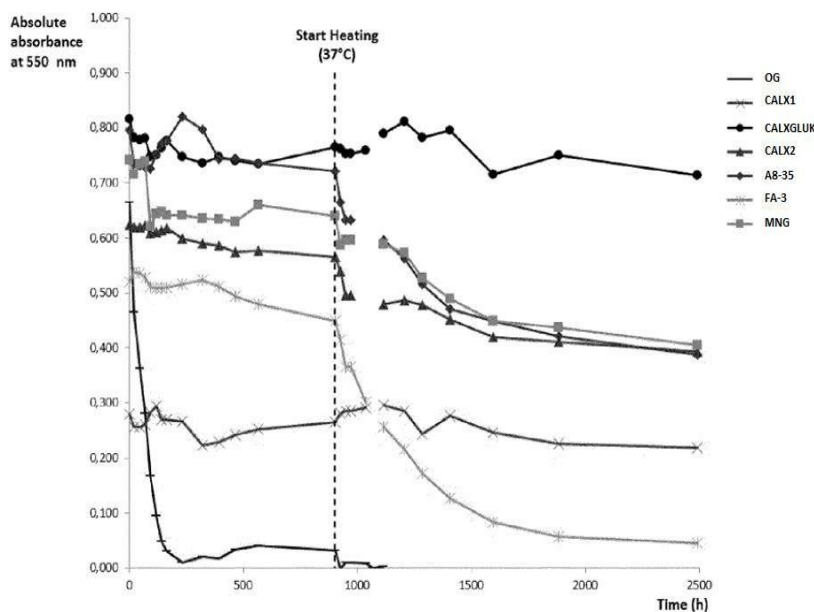
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### Biochemical Validation Data



#### 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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