

## TECHNICAL DATA SHEET – CALXCHOL

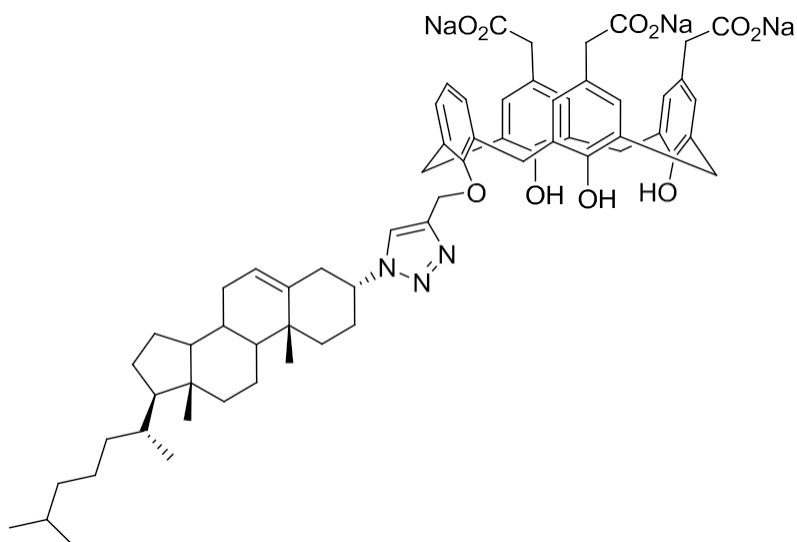
### CALXCHOL

5,11,17-tris[(carboxy)methyl]-25-monomethoxytriazolo-(3 $\alpha$ -cholesteryl)-  
26,27,28-trihydroxycalix[4]arene

2019

#### Information

<b>Compound Name</b>	CALXCHOL	<b>Physical state</b>	Beige powder
<b>Catalogue Number</b> <i>(check availability on CALIXAR's website)</i>	CALXCHOL_10MG, CALXCHOL_50MG, CALXCHOL_100MG	<b>Purity (HPLC, 214nm)</b>	85%
<b>Molec. Formula</b>	C <sub>64</sub> H <sub>74</sub> N <sub>3</sub> Na <sub>3</sub> O <sub>10</sub>	<b>Retention time (RP<sub>18</sub> HPLC)</b>	t <sub>R</sub> = 22.9 min
<b>CAS</b>	nd	<b>CMC</b>	na
<b>MW</b>	1114.2 g/mol	<b>Exact Mass</b>	nd
<b>pKa</b>	na		
<b>Percent composition</b>	C, 68.99; H, 9.69; N, 3.77; Na, 6.19; O, 14.36		
<b>Stability</b>	Store in <-20°C freezer		
<b>Solubility</b>	Soluble in water (up to 4%)		
<b>Structure</b>			

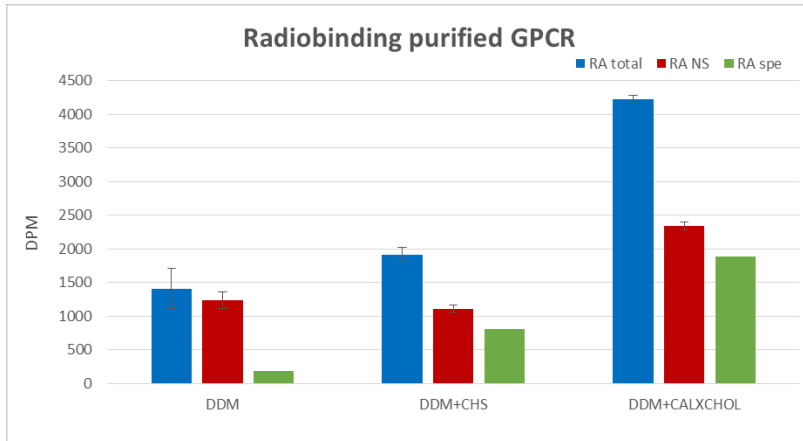


#### References

1- Proprietary patent: "Method for the synthesis of steroidal calixarene compounds and their use for extraction, solubilization and/or stabilization of native and functional membrane proteins"; WO 2017134087 A1 ; Publication date: August 10, 2017.

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### Biochemical Validation Data



**Binding of radioligand on GPCR protein, purified in reference detergent (DDM) with or without CHS or CALXCHOL.**

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).

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