

TECHNICAL DATA SHEET – CALXCHOL

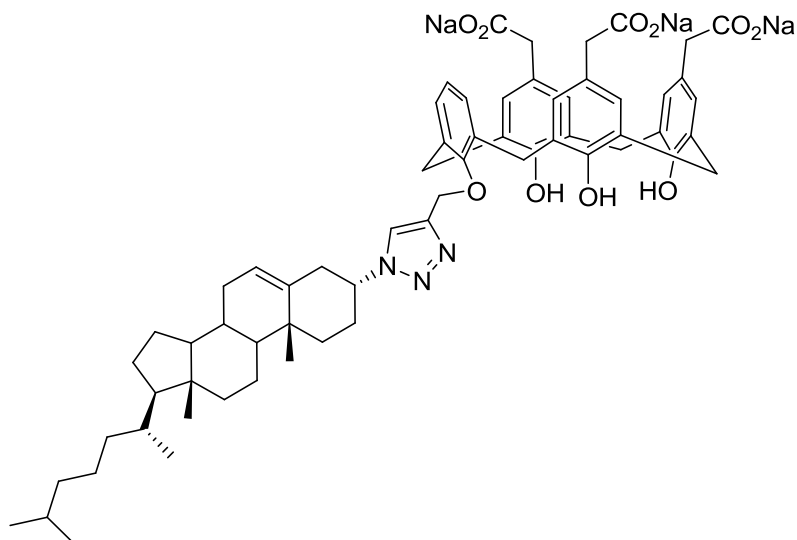
CALXCHOL

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

2019

Information

Compound Name	CALXCHOL	Physical state	Beige powder
Catalogue Number <i>(check availability on CALIXAR's website)</i>	CALXCHOL_10MG, CALXCHOL_50MG, CALXCHOL_100MG	Purity (HPLC, 214nm)	98%
Molec. Formula	C ₆₄ H ₇₄ N ₃ Na ₃ O ₁₀	Retention time (RP₁₈ HPLC)	t _R = 22.9 min
CAS	nd	CMC	na
MW	1114.2 g/mol	Exact Mass	nd
pKa	na		
Percent composition	C, 68.99; H, 9.69; N, 3.77; Na, 6.19; O, 14.36		
Stability	Store in <-20°C freezer for up to one year		
Solubility	Soluble in water (up to 4%)		
Structure			

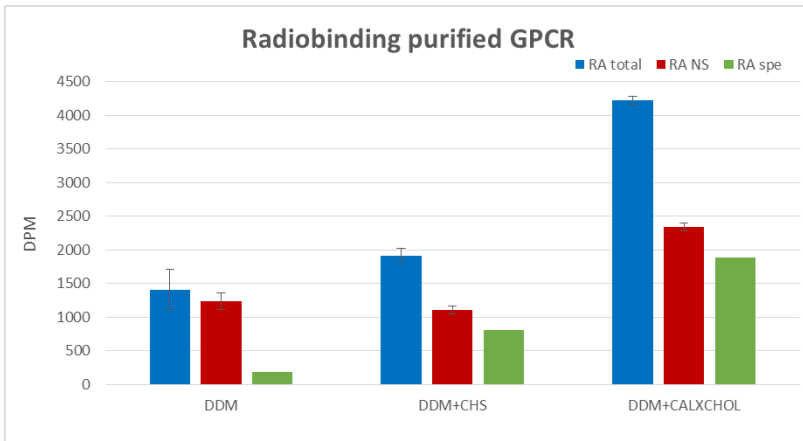


References

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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