TECHNICAL DATA SHEET – DDTAC

DDTAC

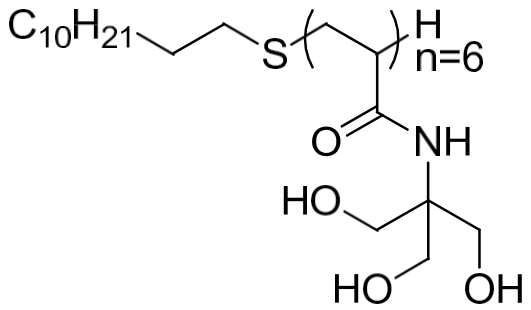
Dodecylmercapto-S-(poly(tris(hydroxymethyl)acrylamidomethane) DPn=6

2019

Information

Compound Name	*DDTAC*	**Physical state**	*White powder*
Catalogue Number *(check availability on CALIXAR's website)*	*DDTAC_250MG, DDTAC_500MG, DDTAC_1G*	**Purity (HPLC, 214nm)**	*nd*
Molec. Formula	*na*	**Retention time (RP_{18} HPLC)**	*t_R = 11.8 min*
CAS	*nd*	**CMC**	*~0.15 mM*
MW	*≈1253 g/mol*	**Exact Mass**	*nd*
pKa	*na*		
Percent composition	*na*		
Stability	*Store in <-20°C freezer*		
Solubility	*Soluble in water (15mM), methanol and DMSO.*		

Structure



References

*1- Talbot, J.-C., A. Dautant, A. Polidori, B. Pucci, T. Cohen-Bouhacina, A. Maali, B. Salin, D. Brethes, J. Velours and M.-F. Giraud (2009). "Hydrogenated and fluorinated surfactants derived from Tris(hydroxymethyl)-acrylamidomethane allow the purification of a highly active yeast F1-F0 ATP-synthase with an enhanced stability." Journal of Bioenergetics and Biomembranes **41**(4): 349-360.*

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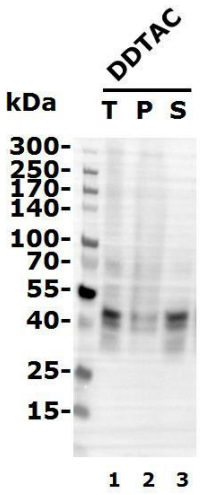
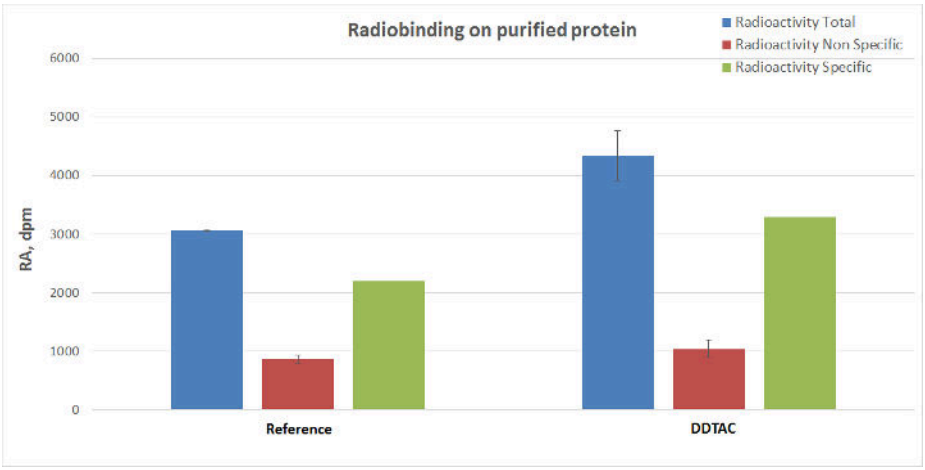
Biochemical Validation Data



Membrane protein solubilization from Sf9 membranes.

The target was extracted from Sf9 membranes by using DDTAC reagent at 10-fold the critical micelle concentration (cmc). After solubilization, samples were centrifuged at 100000g. Proteins from pellets (P) and supernatants (S) were separated on a 4-15% Tris-glycine SDS-PAGE, transferred to PVDF membrane and immunodetected with a specific antibody
T = total, P = pellet, S = supernatant.



Binding of radioligand on GPCR protein, purified in reference detergent or in DDTAC.

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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