

TECHNICAL DATA SHEET – FTAC8

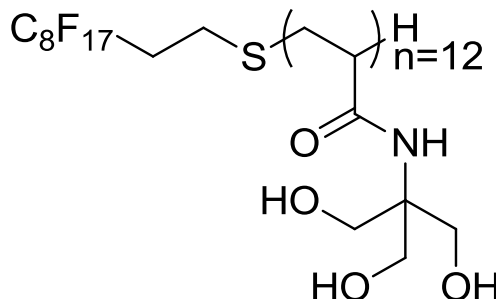
FTAC8

S-(poly(tris(hydroxymethyl)acrylamidomethane)-
 (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorothiodecyl) DP_n=12

2019

Information

| | | | |
|---|--|--|---------------------------|
| Compound Name | FTAC8 | Physical state | White powder |
| Catalogue Number <i>(check availability on CALIXAR's website)</i> | FTAC8_250MG, FTAC8_500MG, FTAC8_1G | Purity (HPLC, 214nm) | nd |
| Molec. Formula | na | Retention time (RP₁₈ HPLC)^a | t _R = 11.7 min |
| CAS | nd | CMC | 0.02 mM |
| MW | ≈2600 g/mol | Exact Mass | nd |
| pKa | na | | |
| Percent composition | na | | |
| Stability | Store in <-20°C freezer for up to one year | | |
| Solubility | Soluble in water (1mM), methanol and DMSO | | |
| Structure | | | |



References

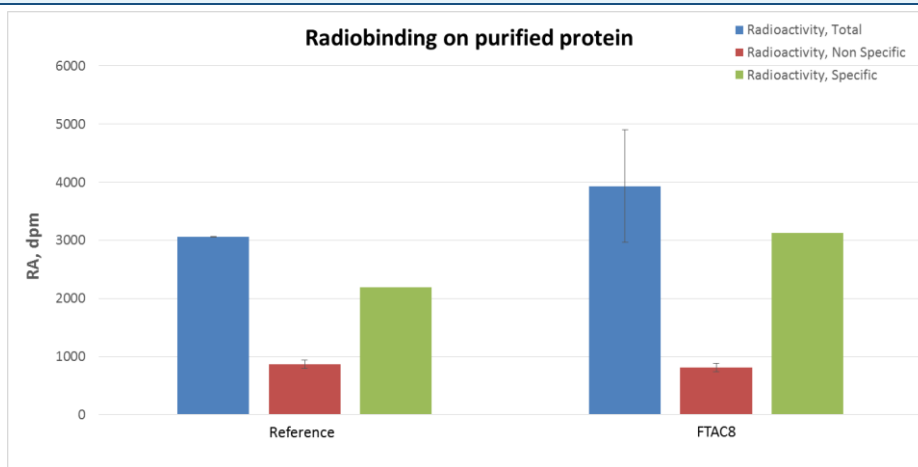
- 1- Damian, M., S. Perino, A. Polidori, A. Martin, L. Serre, B. Pucci and J.-L. Baneres (2007). "New tensio-active molecules stabilize a human G protein-coupled receptor in solution." *Febs Letters* **581**(10): 1944-1950.
- 2- Park, K.-H., C. Berrier, F. Lebaupain, B. Pucci, J.-L. Popot, A. Ghazi and F. Zito (2007). "Fluorinated and hemifluorinated surfactants as alternatives to detergents for membrane protein cell-free synthesis." *Biochemical Journal* **403**: 183-187.
- 3- Joubert, O., R. Nehme, D. Fleury, M. De Rivoyre, M. Bidet, A. Polidori, M. Ruat, B. Pucci, P. Mollat and I. Mus-Veteau (2009). "Functional studies of membrane-bound and purified human Hedgehog receptor Patched expressed in yeast." *Biochimica Et Biophysica Acta-Biomembranes* **1788**(9): 1813-1821.
- 4- Nehme, R., O. Joubert, M. Bidet, B. Lacombe, A. Polidori, B. Pucci and I. Mus-Veteau (2010). "Stability study of the human G-protein coupled receptor, Smoothened." *Biochimica Et Biophysica Acta-Biomembranes* **1798**(6): 1100-1110.
- 5- Park, K.-H., E. Billon-Denis, T. Dahmane, F. Lebaupain, B. Pucci, C. Breyton and F. Zito (2011). "In the cauldron of cell-free synthesis of membrane proteins: playing with new surfactants." *New Biotechnology* **28**(3): 255-261.



TECHNICAL DATA SHEET – FTAC8

6- Kyrchenko, A., M. V. Rodnin, M. Vargas-Uribe, S. K. Sharma, G. Durand, B. Pucci, J.-L. Popot and A. S. Ladokhin (2012). "Folding of diphtheria toxin T-domain in the presence of amphipols and fluorinated surfactants: Toward thermodynamic measurements of membrane protein folding." *Biochimica Et Biophysica Acta-Biomembranes* **1818**(4): 1006-1012.

Biochemical Validation Data



Binding of radioligand on GPCR protein, purified in reference detergent with or without addition of FTAC8 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).

Restricted use: Limited Use Label License

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product and progeny, to perform internal research and development for the sole benefit of the purchaser.

Safety: Not known as a hazardous substance or mixture. General industrial hygiene practices must be followed as the use of adapted personal protective equipment for skin and body.

Technical support

For additional product and technical information email our Technical Support team at contact@calixar.com.

Limited product warranty

TO THE EXTENT ALLOWED BY LAW, CALIXAR WILL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, MULTIPLE OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THIS DOCUMENT, INCLUDING YOUR USE OF IT.

© 2017 Calixar. All rights reserved. All trademarks are the property of Calixar and its subsidiaries.