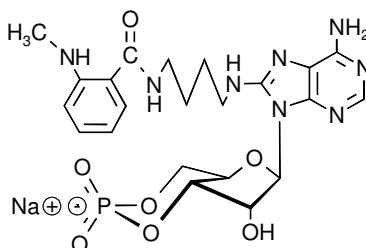


## Technical Information about 8-MABA-cAMP

Fluorescent cyclic AMP analogue

Update: October 04, 2007 TR



**Abbreviation:** 8-MABA-cAMP

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C <sub>22</sub> H <sub>28</sub> N <sub>8</sub> O <sub>7</sub> P·Na	[pending]	570.2	λ <sub>max</sub> 261 nm / 278 nm / pH7	M 016

**Name:** 8- ( 4- [N'- Methylanthraniloyl] aminobutylamino) adenosine- 3', 5'- cyclic monophosphate ( 8-MABA-cAMP )

**Description:** 8-MABA-cAMP is an analogue of the parent second messenger cyclic AMP where the hydrogen in position 8 of the nucleobase is replaced by an aminobutylamino spacer connected to the fluorescent methylanthraniloyl group.

**Properties:** Fluorescent analogue of cyclic AMP ( λ<sub>exc</sub> 352 nm; λ<sub>em</sub> 436 nm ).

**Specification:** Crystallized or lyophilized sodium salt. Please keep in mind that equal amounts of the compound may look different in volume depending on humidity. Other salt forms of 8-MABA-cAMP are available upon request.

**Purity:** Typical analysis is better than 98% (HPLC / UV / 261 nm). The product is not sterile.

**Solubility:** 8-MABA-cAMP has excellent solubility in water or buffers. When opening the tube make sure that no substance is lost within the cap. Please rinse tube walls carefully and preferably use ultrasonic or vortex to achieve total and uniform mixing.

**Stability and Storage:** 8-MABA-cAMP has sufficient stability at room temperature and does not need special care during handling or shipment. Nevertheless, the compound and its solutions should be protected from bright light, stored in the freezer and should be lyophilized and frozen for longer storage periods.

**Toxicity and Safety:** Since cyclic AMP has multiple tasks in every organism, it is possible that cAMP analogs could interfere with many cell regulation processes *in vivo*. However, due to the rather small quantities to work with, no health hazards have been reported. Nevertheless please keep in mind that the *in vivo* properties of this compounds are not sufficiently characterized up to now. Avoid skin contact or ingestion and allow only trained personnel to handle the product. Our products are designed, developed and sold for research purposes only. They are intended for *in vitro* and nonhuman *in vivo* laboratory applications. Any other use requires approval of health authorities.

**Not for drug, household or related uses!**

### Selected Reference for 8-MABA-cAMP:

For a detailed list please inquire.

- 1 Kraemer, A.; Rehmann, H.; Cool, R.H.; Theiss, C.; de Rooij, J.; Bos, J.L.; Wittinghofer, A., *J. Mol. Biol.*, **306**, 1167 - 1177 (2001): "Dynamic Interaction of cAMP with the Rap Guanine-nucleotide Exchange Factor Epac1"