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PRODUCT INFORMATION



Bromo-enol Lactone Solution

Item No. 765038

Contents

The vial contains 500 μ l of 1 mM bromo-enol lactone solution in DMSO. Bromo-enol lactone, when stored as supplied, is stable for one year at -20°C .

Laboratory Procedures

Bromo-enol lactone is a calcium-independent cytosolic Phospholipase A_2 (iPLA $_2$)-specific inhibitor.¹⁻³ To avoid any measurement of iPLA $_2$ activity using the cPLA $_2$ Assay Kit (Item No. 765021), incubate the sample (1 ml) with 5 μ l of the Bromo-enol Lactone solution (5 μ M final concentration) for 15 minutes at 25°C .² The sample can then be assayed for calcium-dependent cytosolic PLA $_2$ (cPLA $_2$) activity according to the procedure described in the cPLA $_2$ Assay Kit booklet.

CAUTIONS

For laboratory research use only. This reagent is not for human or veterinary use. This product has been tested and formulated to work exclusively with the cPLA $_2$ Assay Kit from Cayman (Item No. 765021). This product may not perform as described if used with other assay reagents or protocols.

References

1. Ackermann, E.J., Conde-Frieboes, K., and Dennis, E.A. Inhibition of macrophage Ca^{2+} -independent phospholipase A_2 by bromo-enol lactone and trifluoromethyl ketones. *J. Biol. Chem.* **270**, 445-450 (1995).
2. Hazen, S.L., Zupan, L.A., Weiss, R.H., *et al.* Suicide inhibition of canine myocardial cytosolic calcium-independent phospholipase A_2 . *J. Biol. Chem.* **266**, 7227-7232 (1991).
3. Balsinde, J., Bianco, I.D., Ackermann, E.J., *et al.* Inhibition of calcium-independent phospholipase A_2 prevents arachidonic acid incorporation and phospholipid remodeling in P388D1 macrophages. *Proc. Natl. Acad. Sci. USA* **92**, 8527-8531 (1995).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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