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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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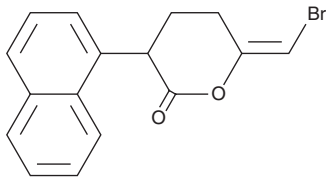
PRODUCT INFORMATION

Bromoenol lactone

Item No. 70700

CAS Registry No.:	88070-98-8
Formal Name:	6E-(bromomethylene)tetrahydro-3-(1-naphthalenyl)-2H-pyran-2-one
Synonyms:	BEL, Haloenol lactone, HELSS
MF:	$C_{16}H_{13}BrO_2$
FW:	317.2
Purity:	≥95%
Supplied as:	A crystalline solid
Melting Point:	103-106°C
UV/Vis.:	λ_{max}: 224 nm
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BEL is supplied as a crystalline solid. A stock solution may be made by dissolving the BEL in an organic solvent purged with an inert gas. BEL is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of BEL in these solvents is approximately 5, 25, and 50 mg/ml, respectively.

Further dilutions of the BEL solutions into aqueous buffers should be made just prior to performing experiments. Store aqueous solutions of BEL on ice and use within 12 hours of preparation. Although the aqueous solutions of BEL may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

Description

BEL is a selective, potent, irreversible, mechanism-based inhibitor of myocardial cytosolic calcium-independent phospholipase A_2 (iPLA$_2$) with a K_i value of 180 nM.[1] BEL also inhibits macrophage iPLA$_2$ in a concentration-dependent manner with an IC_{50} value of 60 nM and is an effective enzyme-activated irreversible inhibitor of chymotrypsin (K_i = 636 nM).[2,3]

References

1. 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).
2. Ackermann, E.J., Conde-Frieboes, K., and Dennis, E.A. Inhibition of macrophage Ca^{2+}-independent phospholipase A_2 by bromoenol lactone and trifluoromethyl ketones. *J. Biol. Chem.* **270**, 445-450 (1995).
3. Daniels, S.B., Cooney, E., Sofia, M.J., *et al.* Haloenol Lactones. Potent enzyme-activated irreversible inhibitors for α-chymotrypsin. *J. Biol. Chem.* **258**, 15046-15053 (1983).

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