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Data Sheet

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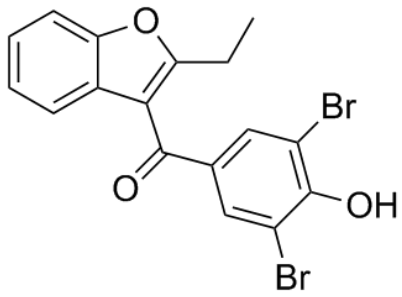
Product Name	:	Benzbromarone
Cat. No.	:	PC-47187
CAS No.	:	3562-84-3
Molecular Formula	:	$C_{17}H_{12}Br_2O_3$
Molecular Weight	:	424.0834
Target	:	Xanthine Oxidase (XAO)
Solubility	:	DMSO: ≥ 39 mg/mL



Biological Activity

Benzbromarone (NSC 85433, MJ10061) is a small molecule inhibitor of **Eyes Absen (EYA) protein tyrosine phosphatase** activity (IC50=8.3 uM, EYA3), exhibits selectivity for EYA over PTP1B.
Benzbromarone is an inhibitor of the urate anion transporter (IC50=0.3 uM for hURAT1) that prevents renal urate resorption.
Benzbromarone also is a small-molecule blocker of TMEM16A-CaCC channels, significantly impairs mucus secretion in primary human airway surface epithelial cells.
Benzbromarone blocks calcium-activated chloride channel (CaCC) **TMEM16A** with IC50 of 9.97 uM in HEK293 cells.

References

Sinclair DS, et al. ***J Rheumatol.*** 1975 Dec;2(4):437-45.

Kumar V, et al. ***Drug Metab Dispos.*** 2006 Oct;34(10):1688-96. Epub 2006 Jun 30.

Huang F, et al. ***Proc Natl Acad Sci U S A.*** 2012 Oct 2;109(40):16354-9.

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