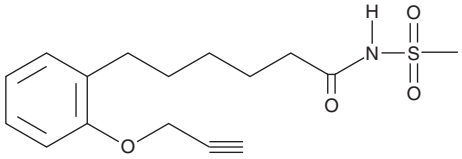
PRODUCT INFORMATION

MS-PPOH

Item No. 75770

CAS Registry No.:	206052-02-0
Formal Name:	N-(methylsulfonyl)-2-(2-propynyloxy)-benzenehexanamide
MF:	$C_{16}H_{21}NO_4S$
FW:	323.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 218, 271 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

MS-PPOH is supplied as a crystalline solid. A stock solution may be made by dissolving the MS-PPOH in the solvent of choice, which should be purged with an inert gas. MS-PPOH is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of MS-PPOH in ethanol is approximately 25 mg/ml and approximately 30 mg/ml in DMSO and DMF.

MS-PPOH is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, MS-PPOH should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. MS-PPOH has a solubility of approximately 0.30 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

MS-PPOH is a selective inhibitor of the epoxygenation reactions catalyzed by specific CYP450 isozymes.[1] MS-PPOH inhibits the formation of arachidonate 11,12-epoxides by CYP4A2 and CYP4A3 enzymes with an IC50 value of 13 µM, but has no effect on the formation of 20-HETE, the ω-hydroxylation product of CYP4A1.[2]

References

1. Imig, J.D., Falck, J.R., and Inscho, E.W. Contribution of cytochrome P450 epoxygenase and hydroxylase pathways to afferent arteriolar autoregulatory responsiveness. *Br. J. Pharmacol.* **127(6)**, 1399-1405 (1999).
2. Wang, M.H., Brand-Schieber, E., Zand, B.A., *et al.* Cytochrome P450-derived arachidonic acid metabolism in the rat kidney: Characterization of selective inhibitors. *J. Pharmacol. Exp. Ther.* **284(3)**, 966-973 (1998).

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