PRODUCT INFORMATION



NS 398

Item No. 70590

CAS Registry No.:	123653-11-2	
Formal Name:	N-[2-(cyclohexyloxy)-4-nitrophenyl]-	0 ₂ N
	methanesulfonamide	
MF:	$C_{13}H_{18}N_2O_5S$	
FW:	314.4	NH
Purity:	≥98%	
UV/Vis.:	λ _{max} : 214, 238, 296, 337 nm	$O = \dot{S} = O$
Supplied as:	A crystalline solid	
Storage:	Room temperature	
Stability:	≥4 years	
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Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

NS 398 is supplied as a crystalline solid. A stock solution may be made by dissolving the NS 398 in the solvent of choice. NS 398 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of NS 398 in these solvents is approximately 0.5, 25, and 30 mg/ml, respectively.

NS 398 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, NS 398 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. NS 398 has a solubility of approximately 0.4 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

NS 398 is a selective inhibitor of cyclooxygenase-2 (COX-2). The IC₅₀ values for human recombinant COX-1 and -2 are 75 and 1.77 μ M, respectively.¹ The IC₅₀ values for ovine COX-1 and -2 are 220 and 0.15 μM, respectively.²

References

- 1. Barnett, J., Chow, J., Ives, D., et al. Purification, characterization and selective inhibition of human prostaglandin G/H synthase 1 and 2 expressed in the baculovirus system. Biochim. Biophys. Acta 1209, 130-139 (1994).
- 2. Johnson, J.L., Wimsatt, J., Buckel, S.D., et al. Purification and characterization of prostaglandin H synthase-2 from sheep placental cotyledons. Arch. Biochem. Biophys. 324, 26-34 (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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1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897 [734] 971-3335 FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.CAYMANCHEM.COM