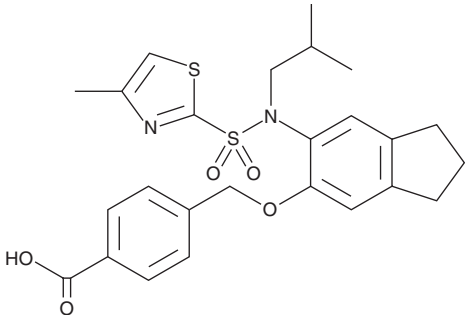
PRODUCT INFORMATION

ONO-8130

Item No. 19118

CAS Registry No.:	459841-96-4
Formal Name:	4-[[[2,3-dihydro-6-[(2-methylpropyl)[(4-methyl-2-thiazolyl)sulfonyl]amino]-1H-inden-5-yl]oxy]methyl]-benzoic acid
MF:	$C_{25}H_{28}N_2O_5S_2$
FW:	500.6
Purity:	≥98%
UV/Vis.:	λ_{max}: 232, 280 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

ONO-8130 is supplied as a crystalline solid. A stock solution may be made by dissolving the ONO-8130 in the solvent of choice. ONO-8130 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of ONO-8130 in these solvents is approximately 2, 3, and 1 mg/ml, respectively.

ONO-8130 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ONO-8130 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. ONO-8130 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

ONO-8130 is an orally bioavailable antagonist of the prostaglandin E_2 (PGE_2) receptor EP_1 (K_i = 1.9 nM)[1,2] It exerts a more than 1,000-fold selectivity for EP_1 compared with other EP receptors.[2] ONO-8130 suppresses pain associated with cyclophosphamide-induced cystitis in mice at 0.3-30 mg/kg.[1] It also blocks PGE_2-induced contraction and eliminates spontaneous tone of guinea pig trachea tested in tissue organ baths.[2]

References

1. Miki, T., Matsunami, M., Nakamura, S., *et al.* ONO-8130, a selective prostanoid EP_1 receptor antagonist, relieves bladder pain in mice with cyclophosphamide-induced cystitis. *Pain* **152(6)**, 1373-1381 (2011).
2. Säfholm, J., Dahlén, S.E., Delin, I., *et al.* PGE_2 maintains the tone of the guinea pig trachea through a balance between activation of contractile EP_1 receptors and relaxant EP_2 receptors. *Br. J. Pharmacol.* **168**, 794-806 (2013).

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