Product Data Sheet

ONO-8711

Cat. No.: HY-12182 CAS No.: 216158-34-8

Molecular Weight: 440

Target: Prostaglandin Receptor

Pathway: GPCR/G Protein

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description	ONO-8711 is a potent and selective competitive antagonist of EP1 receptor ($K_i = 0.6$ and 1.7 nM for human and mouse EP1 respectively). ONO-8711 effectively reduces tumor incidence and multiplicity in mouse models of colon, breast, and oral cancer ^[1] .	
IC ₅₀ & Target	EP	
In Vitro	ONO-8711 (10 and 30 μ M; 30 min) blocks the contractions induced by sulprostone in human pulmonary veins in a non-competitive manner ^[2] . ONO-8711 inhibits PGE ₂ -induced increase in cytosolic Ca ²⁺ concentration with IC ₅₀ s of 0.21 μ M, 0.05 μ M, and 0.22 μ M for the mouse, human, and rat receptors, respectively ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	ONO-8711 (400 or 800 p.p.m.; p.o.; for 20 weeks) suppresses cancer incidence and delays occurrence of breast tumors ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model: Female Sprague-Dawley rats (induced breast cancer by gavage of 85 mg/kg PhIP (HY-	
	Dosage:	118716) 4 times for 2 weeks) 400 or 800 p.p.m.
	Administration:	p.o.; for 20 weeks
	Result:	Did not induce any symptoms of toxicity at 800 p.p.m Delayed occurrence of breast tumors for 2 or 4 weeks at 400 or 800 p.p.m., respectively. Significantly suppressed cancer incidence compared with the control diet group at 800 p.p.m. (56% versus 79%, P < 0.05).

REFERENCES

[1]. Norel X, et al. Vasoconstriction induced by activation of EP1 and EP3 receptors in human lung: effects of ONO-AE-248, ONO-DI-004, ONO-8711 or ONO-8713. Prostaglandins Other Lipid Mediat. 2004 Oct;74(1-4):101-12.



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