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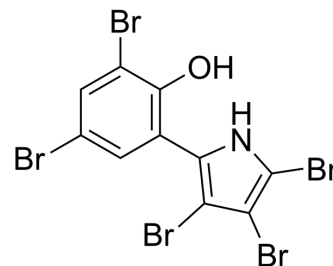
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Pentabromopseudilin

Cat. No.:	HY-113604
CAS No.:	10245-81-5
Molecular Formula:	C ₁₀ H ₄ Br ₅ NO
Molecular Weight:	553.66
Target:	TGF-β Receptor
Pathway:	TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pentabromopseudilin (PBrP) is a marine antibiotic isolated from the marine bacteria <i>Pseudomonas bromoutilis</i> and <i>Alteromonas luteoviolaceus</i>. PBrP exhibits antimicrobial, anti-tumour and phytotoxic activities. PBrP is a reversible and allosteric inhibitor of myosin Va (MyoVa). PBrP also is a potent inhibitor of transforming growth factor-β (TGF-β) activity. PBrP can be used for the research of fibrotic diseases and cancer^[1].	
In Vitro	Pentabromopseudilin (PBrP) (0.01-1 μM, 6 h) prevents TGF-β-induced Smad protein phosphorylation and nuclear translocation^[1]. PBrP (0.5 μM, 6 h) inhibits TGF-β-stimulated transcriptional responses^[1]. PBrP (0-1 μM, 6 h) inhibits TGF-β-induced EMT in A549 cells^[1]. PBrP (0.2 μM, 20 h) suppresses TGF-β-induced cell migration^[1]. PBrP (0.01-1 μM, 6 h) blocks TGF-β signalling by enhancing degradation of TβRII^[1]. PBrP (0.5 μM, 0, 1, 3 h) blocks TGF-β signalling by enhancing degradation of TβRII via caveolae^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis^[1]	
	Cell Line:	Mv1Lu, A549, Clone 9 and HepG2 cells
	Concentration:	0.01-1 μM (Mv1Lu, A549, Clone 9 and HepG2 cells); 0.5 μM (Mv1Lu, A549 and HepG2 cells)
	Incubation Time:	6 h (Mv1Lu, A549, Clone 9 and HepG2 cells); 0.5, 1, 2, 4, 6 h (Mv1Lu, A549 and HepG2 cells)
	Result:	Suppressed the TGF-β-stimulated Smad2/3 phosphorylation in a dose-dependent manner in these cell lines. Prevented TGF-β induced the nuclear translocation of Smad2/3 and PBrP alone did not alter the localisation of Smad proteins.
	Immunofluorescence ^[1]	
	Cell Line:	A549 cells
	Concentration:	0.2 μM
	Incubation Time:	6 h
	Result:	Abolished TGF-β-induced Smad2/3 nuclear translocation.

Cell Migration Assay ^[1]

Cell Line:	A549 cells
Concentration:	0.2 μ M
Incubation Time:	20 h
Result:	Suppressed TGF- β -stimulated cell migration and did not close the wound.

REFERENCES

[1]. Shih-Wei W, et al. Pentabromopseudilin: a myosin V inhibitor suppresses TGF- β activity by recruiting the type II TGF- β receptor to lysosomal degradation. J Enzyme Inhib Med Chem. 2018;33(1):920-935.

Caution: Product has not been fully validated for medical applications. For research use only.

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