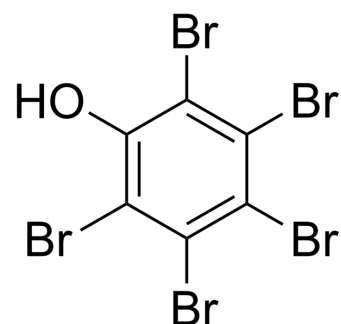


Pentabromophenol

Cat. No.:	HY-W105318
CAS No.:	608-71-9
Molecular Formula:	C ₆ HBr ₅ O
Molecular Weight:	488.59
Target:	TGF-beta/Smad; Apoptosis
Pathway:	Stem Cell/Wnt; TGF-beta/Smad; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Pentabromophenol (PBP) is a brominated flame retardant (BFR) widely used in various consumer products to reduce the flammability of materials used in different utility items. Pentabromophenol can accelerate the degradation of transforming growth factor- β (TGF- β) receptors by promoting clathrin-mediated endocytosis, thereby inhibiting the TGF- β signaling pathway. Additionally, Pentabromophenol can also induce apoptosis in peripheral blood mononuclear cells (PBMCs)^{[1][2]}.

REFERENCES

[1]. Chen CL, et al. Pentabromophenol suppresses TGF- β signaling by accelerating degradation of type II TGF- β receptors via caveolae-mediated endocytosis. *Sci Rep.* 2017;7:43206. Published 2017 Feb 23.

[2]. Barańska A, et al. Apoptosis-Inducing Potential of Selected Bromophenolic Flame Retardants 2,4,6-Tribromophenol and Pentabromophenol in Human Peripheral Blood Mononuclear Cells. *Molecules.* 2022 Aug 9;27(16):5056.

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

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