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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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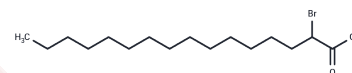
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2-Bromohexadecanoic acid

Chemical Properties

CAS No. :	18263-25-7
Formula:	C ₁₆ H ₃₁ BrO ₂
Molecular Weight:	335.32
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	2-Bromohexadecanoic acid (2-BP) is a non-metabolizable palmitate analog, an agonist of PPAR δ , which acts as a palmitoylation inhibitor and inhibits DHHC-mediated palmitoylation.
Targets(IC50)	Others
In vitro	<p>METHODS: HepG2 was treated with PA (200 μM) and 2-Bromohexadecanoic acid (25-150 μM) to examine CSC sphere morphology and number.</p> <p>RESULTS: 2-Bromohexadecanoic acid (25, 50 and 150 μM) significantly reduced PA-induced CSC sphere formation in HepG2 (75-150 μM and >150 μM).[1]</p> <p>METHODS: ERα or ERα-Cys447Ala-transfected HeLa and HepG2 cells were pretreated with 2-Bromohexadecanoic acid (10 μM) for 30 min, then stimulated with E2 (10 nM) for 10 min, and the target protein expression levels were detected by Western Blot.</p> <p>RESULTS: E2 induced ERK and AKT phosphorylation in ERα-transfected HeLa and HepG2 cells. E2-induced signaling kinase activation was completely blocked without affecting the basal level of phosphorylation if the cells were pretreated with the PAT inhibitor 2-Bromohexadecanoic acid. E2 was ineffective in inducing phosphorylation of ERK and AKT in ERα-Cys447Ala mutant-transfected HeLa cells. [2]</p>

Solubility Information

Solubility	<p>Methanol: 100 mg/mL</p> <p>DMSO: 60 mg/mL (178.93 mM)</p> <p>(< 1 mg/ml refers to the product slightly soluble or insoluble)</p>
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9822 mL	14.9111 mL	29.8223 mL
5 mM	0.5964 mL	2.9822 mL	5.9645 mL
10 mM	0.2982 mL	1.4911 mL	2.9822 mL
50 mM	0.0596 mL	0.2982 mL	0.5964 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Chong LW, et al. Targeting protein palmitoylation decreases palmitate-induced sphere formation of human liver cancer cells. Mol Med Rep. 2020 Aug;22(2):939-947.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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