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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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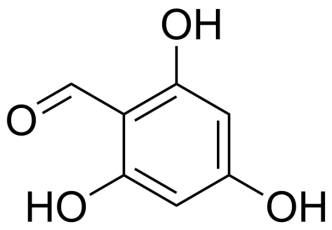
2,4,6-Trihydroxybenzaldehyde

Cat. No.:	HY-W005130
CAS No.:	487-70-7
Molecular Formula:	$C_7H_6O_4$
Molecular Weight:	154.12
Target:	NF-κB
Pathway:	NF-κB
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



BIOLOGICAL ACTIVITY

Description	2,4,6-Trihydroxybenzaldehyde is an orally active NF-κB inhibitor. 2,4,6-Trihydroxybenzaldehyde shows anti-tumor activity, anti-cancer cell proliferative activity and anti-obesity activity[1][2][3].
In Vitro	2,4,6-Trihydroxybenzaldehyde inhibits adipocyte differentiation and lipid accumulation in 3T3-L1 cells[1]. 2,4,6-Trihydroxybenzaldehyde down-regulates PPARγ, C/EBPα, SREBP-1c, and FAS protein expression levels[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	2,4,6-Trihydroxybenzaldehyde (oral administration; 5 and 25 mg/kg for 13 weeks) reduces the HFD-induced increase in weight gain, reduces serum levels of glucose, triglycerides, and total cholesterol[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kim KN, et al. 2,4,6-Trihydroxybenzaldehyde, a potential anti-obesity treatment, suppressed adipocyte differentiation in 3T3-L1 cells and fat accumulation induced by high-fat diet in C57BL/6 mice. Environ Toxicol Pharmacol. 2015 Mar;39(2):962-8.

[2]. Marton A, et al. Vanillin Analogues o-Vanillin and 2,4,6-Trihydroxybenzaldehyde Inhibit NFκB Activation and Suppress Growth of A375 Human Melanoma. Anticancer Res. 2016 Nov;36(11):5743-5750.

[3]. Forester SC, et al. Gut metabolites of anthocyanins, gallic acid, 3-O-methylgallic acid, and 2,4,6-trihydroxybenzaldehyde, inhibit cell proliferation of Caco-2 cells. J Agric Food Chem. 2010 May 12;58(9):5320-7.

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