## **Product** Data Sheet

## 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- $\kappa$ B

Storage: 4°C, stored under nitrogen

NF-κB

\* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)

## **BIOLOGICAL ACTIVITY**

Pathway:

Description	$2,4,6$ -Trihydroxybenzaldehyde is an orally active NF- $\kappa$ B 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 <sup>[1]</sup> . 2,4,6-Trihydroxybenzaldehyde down-regulates PPARγ, C/EBPα, SREBP-1c, and FAS protein expression levels <sup>[1]</sup> . 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 <sup>[1]</sup> .  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 NFkB 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.

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

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