

 Phone:
 888-558-5227

 651-644-8424

 Fax:
 888-558-7329

 Email:
 getinfo@lktlabs.com

 Web:
 lktlabs.com

Product Information

Product ID D3232 CAS No. 1968-05-4 Chemical Name

Synonym 3,3'-Diindolymethane, 3,3'-Methylenebis-1H-indole, DIM

Formula C₁₇H₁₄N₂ Formula Wt. 246.31 Melting Point 163-165°C Purity ≥98% Solubility Soluble in DMSO (200 mg/mL). Insoluble in water.



Bulk quanitites available upon request

Product ID	Size
D3232	1 g
D3232	5 g
D3232	10 g

Store Temp Ambient

Ship Temp Ambient

Description 3,3'-Diindolylmethane (DIM) is found in cruciferous vegetables; it exhibits anti-inflammatory, immunosuppressive, antioxidative, anti-diabetic, anti-fibrotic, anti-metastatic, anticancer chemotherapeutic, and chemopreventive activities. DIM acts as an agonist at the aryl hydrocarbon receptor. DIM increases levels of Foxp3 and function of Treg cells and decreases expression of toll-like receptor 4 (TLR4) and Th17 cells, preventing hepatic steatosis and inflammation in vivo. DIM also prevents the development of experimental autoimmune encephalitis (EAE) by suppressing T cell activity. In vivo, this compound decreases glucose levels, insulin levels, and Hb1Ac by increasing activity of glucokinase and glucose-6-phosphate dehydrogenase and decreasing activity of glucose-6-phosphatase and fructose-1,6-bisphosphatase. DIM also prevents the development of liver fibrosis in vivo. In cellular and animal models of nasopharyngeal carcinoma, DIM inhibits cellular invasion and metastasis and tumor growth; it also decreases activity of HDAC2.

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Beaver LM, Yu TW, Sokolowski EI, et al. 3,3'-Diindolylmethane, but not indole-3-carbinol, inhibits histone deacetylase activity

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.