

DIHYDRO-7-HYDROXY MITRAGYNINE (MGM-15)

TEST
PURCHASE

MAY
2026

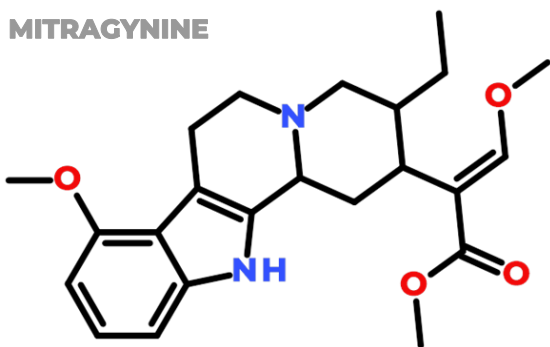
PURPOSE: The objective of this report is to detail our findings from forensic testing of newly marketed kratom-like products containing **Dihydro-7-Hydroxy Mitragynine** (“MGM-15”) for notification to public health, public safety, clinicians, medical examiners, coroners, forensic laboratories, and other related communities regarding this emerging drug of concern.

BACKGROUND: Dihydro-7-hydroxy mitragynine is a novel synthetic kratom alkaloid. It bears structural resemblance to mitragynine, the primary alkaloid in Kratom (*Mitragyna speciosa*), and 7-hydroxy mitragynine, a metabolite of mitragynine and novel kratom alkaloid in its own right. Due to changes in legal status of kratom and the rise in popularity of other related alkaloids, novel synthetic kratom alkaloids have begun appearing among products sold in smoke shops and similar retail marketplaces. Limited data exist regarding these novel psychoactive substances (NPS); however, early data suggest dihydro-7-hydroxy mitragynine is approximately 30 times more potent than mitragynine. This new substance can be prepared in several forms (e.g., powder, tablet, liquid), while its branding and market naming vary widely.

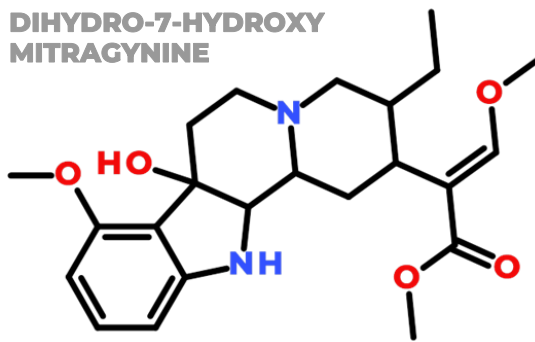
SUMMARY: Dihydro-7-hydroxy mitragynine was first detected in our laboratory in September 2025, not long after it began appearing in discussion groups associated with kratom and 7-hydroxy mitragynine enhanced products. At first, dihydro-7-hydroxy mitragynine was commonly referred to as “MGM-15”—the name assigned to this substance relating to its original literature source. More recently, market naming or labeling for dihydro-7-hydroxy mitragynine has switched to “DHM”; however, there are debates as to what true substance this acronym stands for. Most recently, similar to the trajectory of other smoke shop products, kratom alkaloids now appear under the guise of “proprietary blend” labeling. This includes dihydro-7-hydroxy mitragynine, which is now appearing in kratom-related products using similar “proprietary” wording or scientific buzz words (e.g., “nano tech”). As the market for enhanced kratom products has evolved, so too has the introduction of novel synthetic kratom alkaloids.

Laboratories must be aware that kratom alkaloids, including dihydro-7-hydroxy mitragynine, present complex analytical challenges, including isomers, interconversion, and instability.

MITRAGYNINE



DIHYDRO-7-HYDROXY MITRAGYNINE



PRODUCT	ADVERTISED	DETECTED
Unlabeled	“MGM-15 RitPure”	Dihydro-7-Hydroxy Mitragynine
Unlabeled	“MG-M15”	Dihydro-7-Hydroxy Mitragynine
8 Wonder	Proprietary Blend (“DHM”)	Dihydro-7-Hydroxy Mitragynine & Mitragynine
7 Stax Mitragynine	80 mg, Nano Tech Mitragynine	Dihydro-7-Hydroxy Mitragynine & Mitragynine