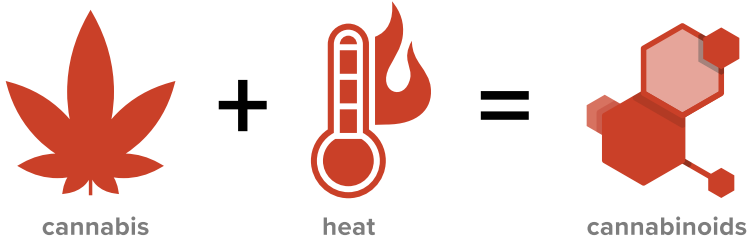


# CANNABINOIDS EXPLAINED



## WHAT ARE CANNABINOIDS?

Cannabis plants produce special chemicals called cannabinoid acids. Estimates vary widely on how many cannabinoids are in the plant, but suffice it to say that there are many, and most only show up in trace amounts.

Cannabis plants do not directly create cannabinoids. Instead, they produce these cannabinoid acids which, when heated, go through a process called decarboxylation to produce cannabinoids.

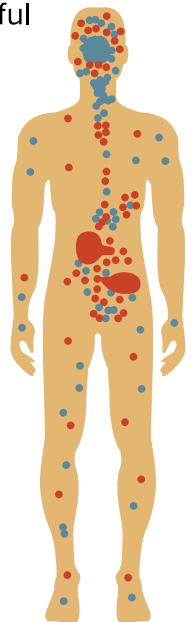
Cannabinoid acids aren't going to make you feel high like THC will. But they still have helpful properties that make them useful even before decarboxylation.

## THE ENDOCANNABINOID SYSTEM

Within our endocannabinoid system, there are two receptors--CB-1 and CB-2. CB-1 receptors live primarily in our brain and central nervous system, while CB-2 receptors are found throughout the entire body, including the immune system.

These receptors act as landing pads for both endocannabinoids and phytocannabinoids (the kind that come from plants, like cannabis). When either chemical connects with a receptor, a reaction begins that breaks down the cannabinoids. As they break down, they cause effects we associate with cannabis, whether it be a psychoactive high, euphoria or pain relief to name a few.

Each type of cannabinoid produces its own unique effect, and these can change based on whether the chemical is connected with a CB-1 receptor or a CB-2 receptor.



## CANNABINOIDS ACIDS

There are 8 main cannabinoids acids that are found most often and in the greatest quantity in cannabis plants.

- CBGA (Cannabigerolic acid)*
- THCA ( $\Delta^9$ -tetrahydrocannabinolic acid)*
- CBDA (Cannabidiolic acid)*
- CBCA (Cannabichromenic acid)*
- CBGVA (Cannabigerovarinic acid)*
- THCVA (Tetrahydrocannabivarinic acid)*
- CBDVA (Cannabidivarinic acid)*
- CBCVA (Cannabichromevarinic acid)*

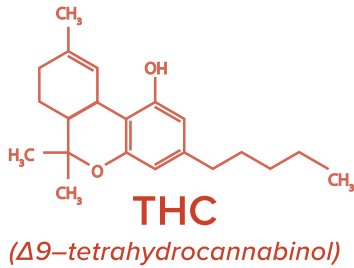
## CANNABINOIDS

After decarboxylation, these acids turn into the following cannabinoids:

- CBG (Cannabigerol)*
- THC ( $\Delta^9$ -tetrahydrocannabinol)*
- CBD (Cannabidiol)*
- CBC (Cannabichromene)*
- CBGV (Cannabigerivarin)*
- THCV (Tetrahydrocannabivarin)*
- CBDV (Cannabidivarin)*
- CBCV (Cannabichromevarin)*

## WHAT DO CANNABINOIDS DO?

What exactly do cannabinoids do? When cannabis is heated and consumed, they are the chemicals that make you feel high, relaxed, energized, creative, etc. Of course, the effects depend on the strain, but the cannabinoids are the active ingredient that make these results noticeable.

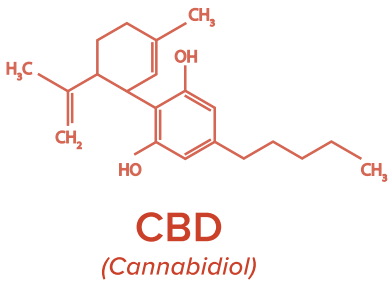
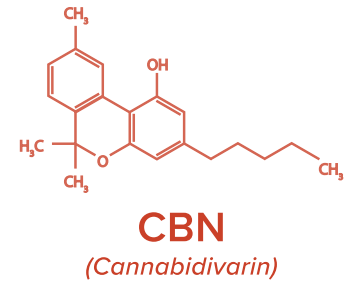


### THC can help with:

- Pain relief
- Digestion
- Mood uplift
- Parkinson's disease
- Epilepsy
- Insomnia
- Sleep apnea
- HIV/AIDs

### CBN can help with:

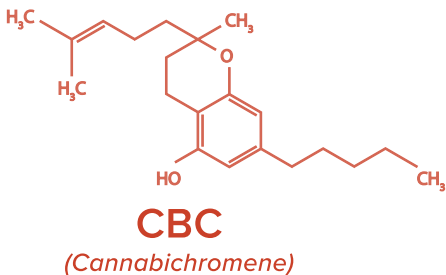
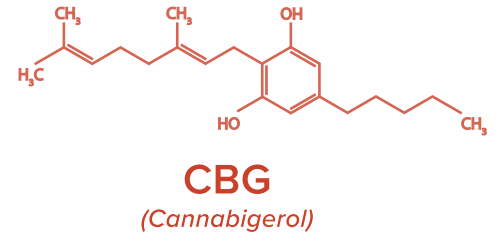
- Anti-seizure
- Anti-inflammatory
- Antibiotic
- Good for arthritis
- Sleep aid



### CBD can help with:

- Pain relief
- Anti-anxiety
- Uplift Mood
- Anti-inflammation
- Neuroprotective
- Antipsychotic
- Anti-tumor
- Lowers high blood pressure

**CBG** (cannabigerol) is a cannabinoid that needs further research, but evidence suggests that it can help patients with glaucoma, Crohn's disease, and irritable bowel syndrome. It also may prevent tumor growth, and it is non-psychoactive.



**CBC** (cannabichromene) is non-psychoactive. Research suggests that CBC interacts with THC similarly to CBD --muting the psychoactive effects. It also seems to have a role in promoting neurogenesis and neuroplasticity, both of which are key to maintaining a healthy, functioning brain.

Fine Fettle is a marijuana dispensary located in Rowley MA. We are a team of caring and passionate professionals who have joined together to create a marijuana dispensary that is respectful, friendly, safe, and education-oriented.

Different than other dispensaries, we combine an individualized approach with a true retail environment to make Fine Fettle a marijuana dispensary that you can feel comfortable, no matter what background you have with cannabis.

