

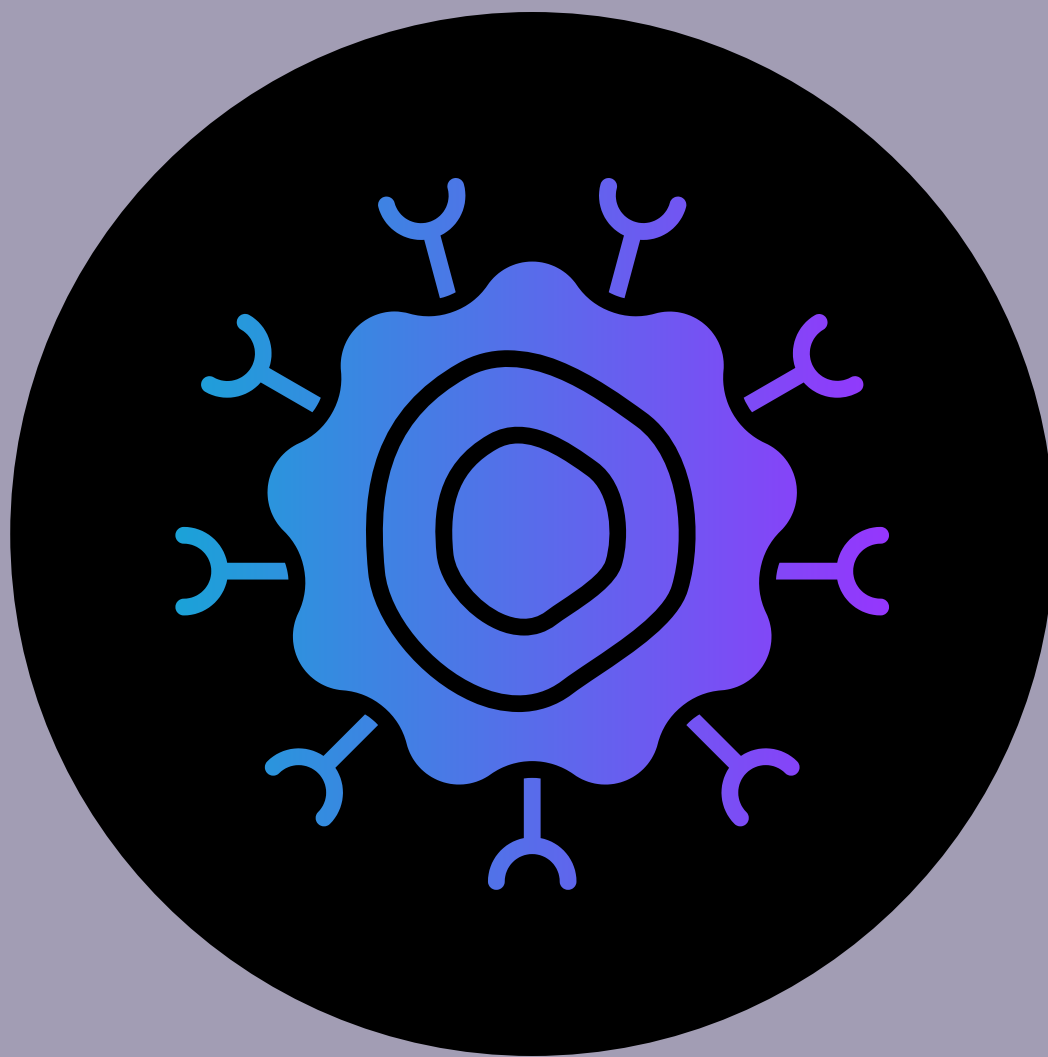
# “Trump, Autism & Leucovorin: Hope or Hype?”

Here's What You Need  
to Know!

[doctorkalpana.md](http://doctorkalpana.md)

# Folate Receptor Blockage in Autism

Research shows many autistic children develop autoantibodies that block folate receptors in the brain. This prevents folate (like 5-MTHF) from entering the CSF, leading to Cerebral Folate Deficiency (CFD).



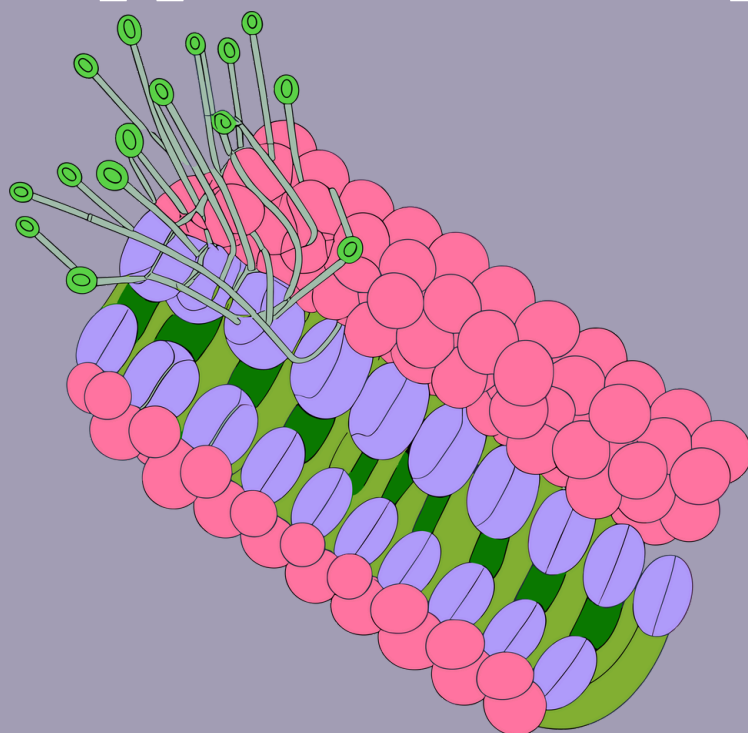
# Folate Receptor

## Blockage in Autism

Studies suggest ~60–70% of children with autism test positive for folate receptor autoantibodies.

In such cases, Leucovorin (folinic acid) can bypass the blockage and restore brain folate levels.

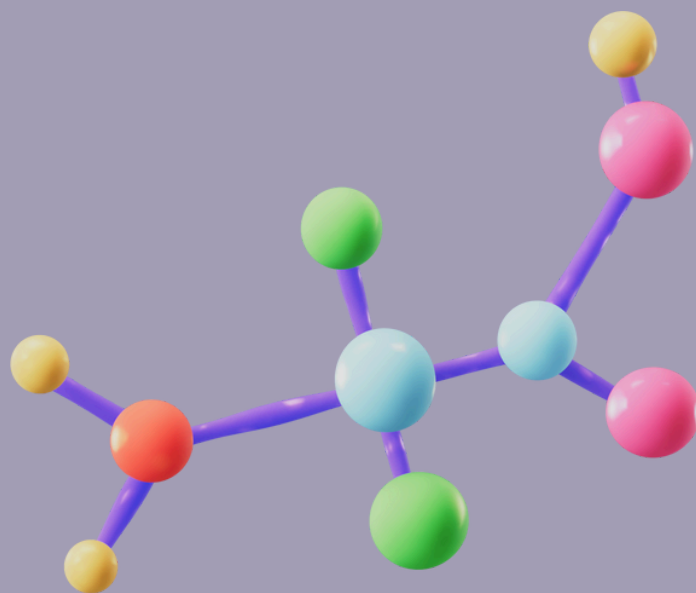
This is why folinic acid is being studied as a supportive therapy in autism.



# Leucovorin vs 5 MTHF

Leucovorin (folinic acid): Flexible folate form → can turn into many folate types + cross the brain barrier even if folate receptors are blocked (seen in some kids with autism).

5-MTHF (methylfolate): Main blood folate → supports methylation & lowers homocysteine, but needs normal transport and often can't enter the brain in receptor-blocked states.



# Leucovorin

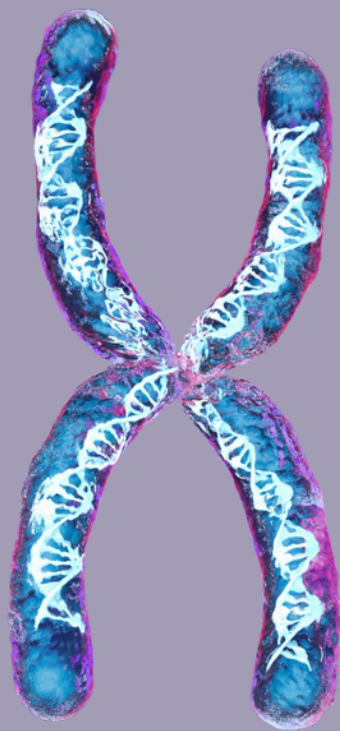
Leucovorin helps in cerebral folate deficiency, while 5-MTHF mainly supports methylation.

- It crosses blood–brain barrier even when folate transport is blocked.
- It restores brain folate, enhancing cognition, behavior, and mood.
- It reduces neuroinflammation and oxidative stress.



# MTHFR Mutation & Folate Pathway

The MTHFR enzyme activates folate for brain use, but variants (C677T, A1298C) reduce its activity, leading to lower methylation. Leucovorin can bypass this issue by delivering folate directly.



# Cerebral Folate Deficiency (CFD) in Autism

Low brain folate found in some children with autism.

Often caused by folate receptor autoantibodies.

Leucovorin restores brain folate and supports development.



# How to Test for Folate Problems

MTHFR gene testing (blood/saliva).

Serum & RBC folate levels.

Folate receptor  $\alpha$  (FR $\alpha$ ) antibodies.

CSF 5-MTHF for definitive brain folate status.



# Clinical Evidence in Autism

Small studies indicate improvements in:

Language & communication

Cognitive function

Behavior & social interaction

Greatest benefits observed in children with FR $\alpha$  antibodies or CFD.



# Trump's Recent Statement (Sept 2025)

Highlighted leucovorin as a potential autism therapy.

Announced plans to improve access for children with Cerebral Folate Deficiency (CFD).



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