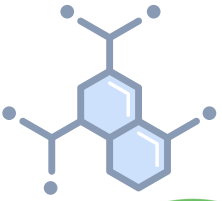


AMINO ACID:
BUILDING
BLOCKS OF
PROTEINS

COBALAMIN:
A FORM OF VITAMIN B12

PROTEIN:
FORMED FROM AMINO ACIDS
AND IN FOOD WE EAT-
IMPORTANT FOR THE
CREATION AND REPAIR OF
CELLS

What is that?



ENZYME:
PROTEINS THAT SPEED UP
METABOLISM IN YOUR BODY AND
WHERE CHEMICAL REACTIONS OCCUR



METABOLISM:
CHEMICAL REACTIONS THAT
OCCUR IN YOUR BODY



HCU:
ABBREVIATION FOR A
DIAGNOSIS OF
HOMOCYSTEINURIA

METHIONINE:
AN AMINO ACID THAT
IS VERY IMPORTANT
FOR THE HEALTH OF
YOUR BRAIN

HOMOCYSTEINE:
AN AMINO ACID- TOO
MUCH IS TOXIC



What Kind of Homocystinuria?

Classical HCU caused by CBS Defect

My body has an inactive *CBS enzyme. I have high homocysteine and high methionine. I eat a low protein diet, drink special formula, take Betaine and other supplements. I can be responsive or non-responsive to vitamin B6.

*Cystathionine Beta Synthase

My body can not convert homocysteine to methionine. I have high homocysteine, and low methionine. I take Betaine. B12 injections and protein restriction diets do not help me.

HCU caused by Cobalamin Defect

My body can not convert homocysteine to methionine. I have high homocysteine and low methionine. I take B12 injections, Betaine and other supplements. Protein restriction diets are bad for me.

HCU caused by Severe MTHFR