

[Open Peer Review on Qeios](#)

Amino Acid Transporter

National Cancer Institute

Source

National Cancer Institute. *Amino Acid Transporter*. NCI Thesaurus. Code C17271.

Amino Acid Transporter proteins carry organic compounds containing an amino (-NH₂) and a carboxyl (-COOH) group through solubility barriers, such as aqueous body fluids, lipid membranes or across epithelial layers. After binding substrate, transmembrane transporters often undergo an energy-dependent conformational change that moves the substrate across the membrane with (symport) or against (antiport) concentration gradients.