

Answer on Question#49628 – Biology – Biochemistry

Does this statement true or not? (passive transport uses energy whereas active transport consumes energy in the form of ATP).

Solution:

Passive transport is a movement of substances (molecules, single atoms, ions) across the cell membrane that doesn't require chemical energy (from ATP). Passive transport only uses energy (it uses the growth of entropy of the whole system) but doesn't consume energy in the form of ATP.

Active transport is a movement of molecules across the cell membrane in the direction against their concentration gradient. Active transport requires chemical energy (from ATP).

Answer: True.