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转运蛋白

V-ATPase

This diagram illustrates the molecular components involved in the fusion of a synaptic vesicle with the plasma membrane. The vesicle membrane (top) contains synaptic vesicle proteins (VAMP), including VAMP2 (orange) and VAMP3 (blue). The plasma membrane (bottom) contains SNARE proteins, including SNAP-25 (blue) and syntaxin (green). The SNARE complex is formed by the interaction of VAMP and SNAP-25. The diagram also shows the role of Rab3/27 (green) and Munc13 (yellow) in the vesicle membrane, and the role of RIM (pink) and RIM BP (red) in the plasma membrane. The SNARE complex is shown in a dashed box, highlighting the interaction between VAMP and SNAP-25. The diagram is labeled with '膜囊' (vesicle membrane), '突触结合蛋白' (synaptic binding protein), '突触融合蛋白' (synaptic fusion protein), 'SNARE complex', 'SNAP-25', 'VAMP', 'Rab3/27', 'Munc13', 'RIM', 'RIM BP', 'GTP', 'Ca²⁺ 通道' (Ca²⁺ channel), '细胞质侧' (cytoplasmic side), and '细胞外侧' (extracellular side).

膜囊

C 神经递质
转运蛋白

突触结合蛋白

突触泡蛋白
(VAMP)

Complexi

Munc18

细胞质侧

细胞外侧

Ca²⁺ 通道

突触融合蛋白

细胞质膜