

G protein-coupled receptors (GPCRs), also known as seven-transmembrane domain receptors, 7TM receptors, heptahelical receptors, serpentine receptor, and G protein-linked receptors (GPLR), constitute a large protein family of receptors that sense molecules outside the cell and activate inside signal transduction pathways and, ultimately, cellular responses. They are called transmembrane receptors because they pass through the cell membrane, and furthermore, they are called seven-transmembrane receptors because they pass through the cell membrane seven times.

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