
Cadherin subfamily
Classical/type I cadherins
E-cadherin like
N-cadherin like
Less related
Desmocollins
Desmogleins
Type II cadherins
EC1
EC2
EC3
EC4
EC5
β–helix
Key
Calcium ion coordinating residue (numbers denote calcium ion coordinating site between these domains, triangle denotes calcium ion coordinating carbonyl)
Glycosylated residue
Mutation abolishes adhesion
Mutation does not abolish adhesion
Mutation seen in tumors
Disulphide bond
Conserved Pro at start of each domain
Strand dimer interaction W2 donor
Strand dimer interaction W2 acceptor
Cis dimer interaction
β–strand, colors as in Figure 1C
Quasi–β–helix
α–helix
Table of mutations
E–cadherin (Ozawa et al., 1990) D134K, D134A
E–cadherin (Pertz et al., 1999) W2A, A80I
E–cadherin (Berx et al., 1998) T39P, N161S, E182D, D216A, E309Q, T316I, V319N, A438T, R444Q, A463T
N–cadherin (Tamura et al., 1998) W2A, W2F(partial), W2Y, V3Y, A78M, A80M
R–cadherin (Kitagawa et al., 2000) W2A, G15A, D27A, D29A, Y36A, T39A, D44A, F51A, G58A, Y74A(partial), H79A, A80I, V81A, D82A, N84A, E89A, Y147A, F162A