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Abstract:

The POT family of membrane transporter proteins shows remarkable feature of diverse substrate promiscuity. This promiscuity has led to development of peptide based pro-drugs that us PepT1 and PepT2, mammalian homologues, to improve oral drug delivery. Here I tried to classify 46 POT family transporters on the basis of transmembrane α -helical spanners and to establish evolutionary relationship between POT family members and by sequence alignment technique looked into residues conserved in POT family members.