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(54) **Title**: HETEROCYCLIC INHIBITORS OF GLUTAMINYL CYCLASE (QC, EC 2.3.2.5)

(57) **Abstract**: The invention relates to novel heterocyclic derivatives as inhibitors of glutaminyl cyclase (QC, EC 2.3.2.5). QC catalyzes the intramolecular cyclization of N-terminal glutamine residues into pyroglutamic acid (5-oxo-prolyl, pGlu*) under liberation of ammonia and the intramolecular cyclization of N-terminal glutamate residues into pyroglutamic acid under liberation of water.