



STRUCTURAL
BIOLOGY

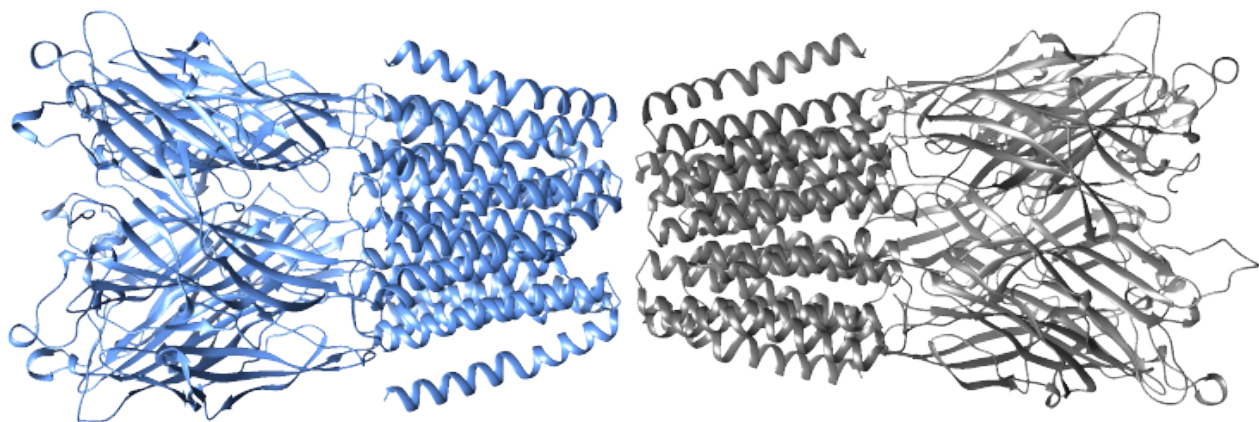
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Supporting information for article:

Structural evidence for the binding of monocarboxylates and dicarboxylates at pharmacologically relevant extracellular sites of a pentameric ligand-gated ion channel

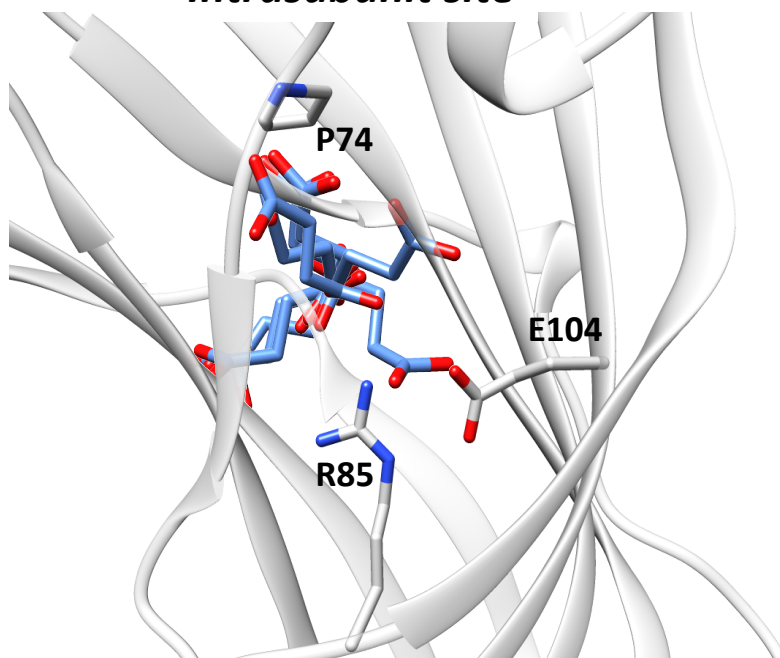
Zaineb Fourati, Ludovic Sauguet and Marc Delarue

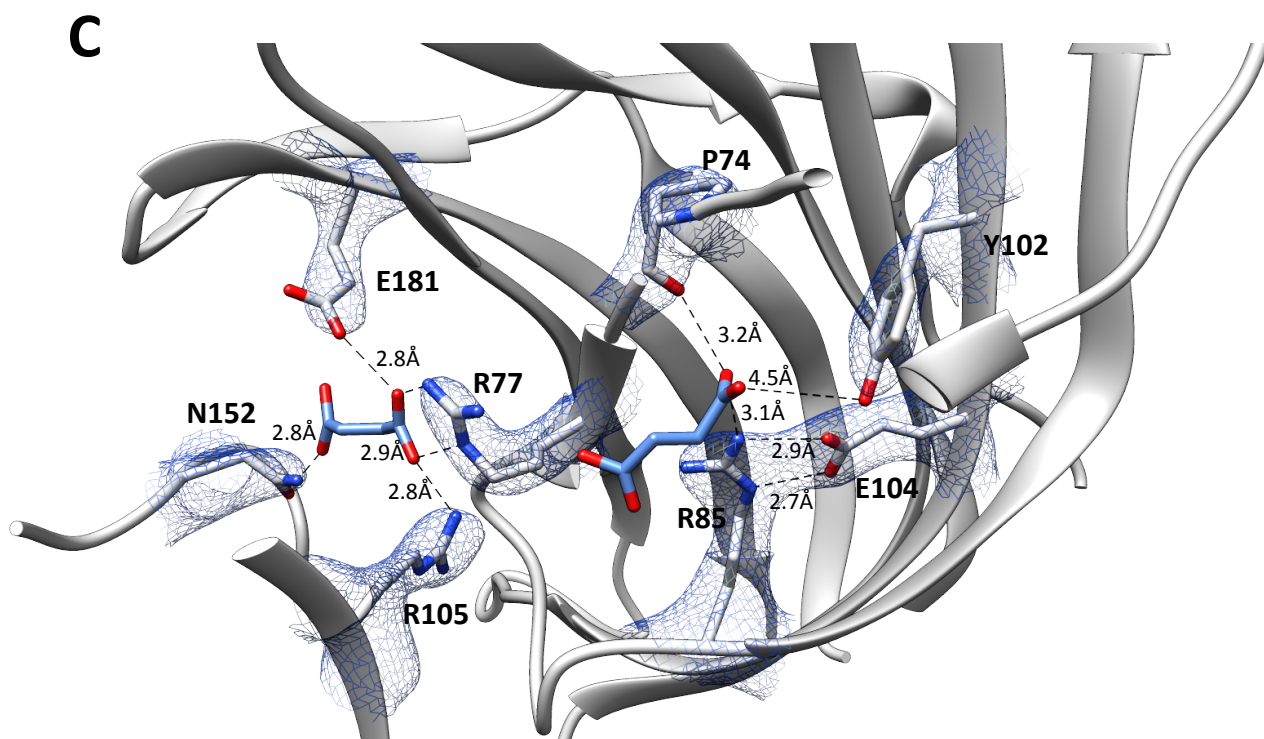
A



B

Intrasubunit site





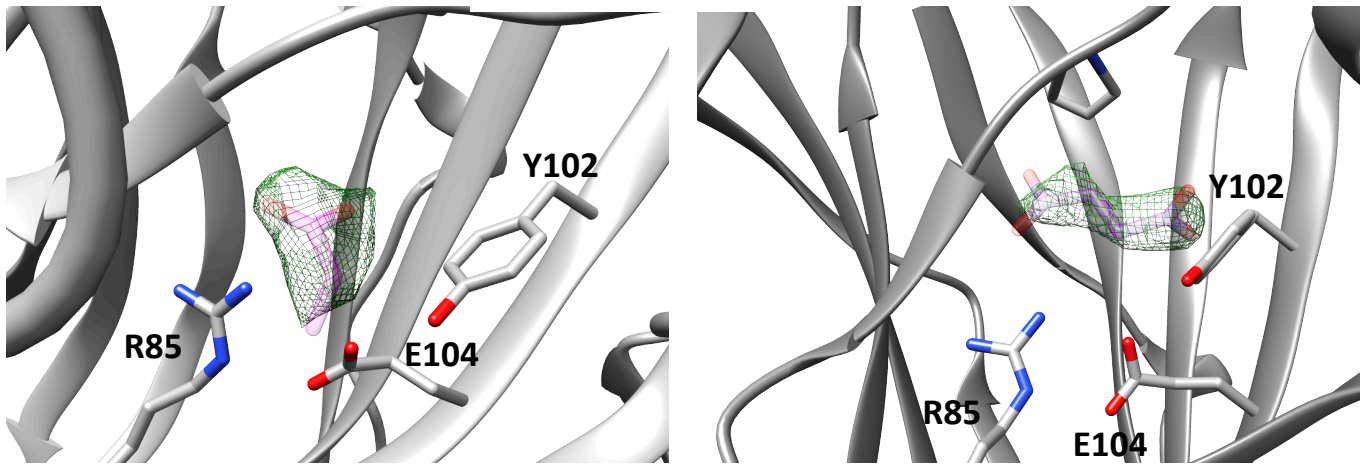
Supplementary figure S1: GLIC7 succinate structure

A- Cartoon representation of the asymmetric unit content in succinate bound GLIC structure, where two GLIC receptors are oriented back to back, making contacts through their transmembrane domains.

B- Superimposition of the ten intrasubunit sites found in the two pentamers of the succinate-bound GLIC structure, showing the different binding poses of succinate observed in the intrasubunit site. C- 2Fo-Fc density, contoured at 1σ , of the residues involved in succinate coordination.

Succinate molecules are colored blue.

Intrasubunit site



Supplementary figure S2: Representation of the omit Fo-Fc density maps, contoured at 3σ in the *intrasubunit* site of propionate (left) and succinate (right) structures. Propionate (left) and succinate (right) were modelled inside the densities in pink transparent sticks.