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<td>Rym Elfessi-Magouri 1, Steve Peigneur 2, Houcemeddine Othman 1, Najet Srairi-Abid 1, Mohamed Elayeb 1, Jan Tytgat, Riadh Kharrat 1,*</td>
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Characterization of Kbt21 Reveals Novel Side Chain Interactions of Scorpion Toxins Inhibiting Voltage-Gated Potassium Channels

Rym Elfenissi Hadjou 1, Steve Piugnet 1, Houcemeddine Othman 1, Najet Soum-Abd 1, Mohamed Elhayj 1, Yan Tytgat 1, Khalil Khanfir 1
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Institut Pasteur de Tunis - Institut Pasteur de Tunis ; Réseau International des Instituts Pasteur Laboratoire of Toxicology & Pharmacology - University of Leuven

Abstract
Scorpion toxins are important pharmacological tools for probing the physiological roles of ion channels which are involved in many physiological processes and as such have significant therapeutic potential. The discovery of new scorpion toxins with different specificities and affinities is needed to further characterize the physiology of ion channels. In this regard, a new short peptide called Kbt21 has been purified to homogeneity from the venom of Bothus occitanus tandanus scorpion. Kbt21 is structurally related to BrkBTx1 from the venom of the Asian scorpion Bothus martensi Karsch. These two toxins differ by only two residues at position 12 (K/V) and 24 (D/H). Despite their very similar sequences, Kbt21 and BrkBTx1 differ in their electrophysiological activities. Kbt21 targets Kv channel subtypes whereas BrkBTx1 is active on both big conductance (BK) and small conductance (SK) Ca2+-activated K+ channel subtypes, but has no effects on Kv channel subtypes. The docking model of Kbt21 with the Kv1.2 channel shows that the D24 and R13 side chain (of Kbt21) are critical for its interaction with Kv channels.

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Any questions?  hal-riip@pasteur.fr

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