

## Product datasheet

# Recombinant Kaliotoxin1 protein ab57664

### Description

|                   |                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name      | Recombinant Kaliotoxin1 protein                                                                                                                  |
| Expression system | Escherichia coli                                                                                                                                 |
| Protein length    | Full length protein                                                                                                                              |
| Animal free       | No                                                                                                                                               |
| Nature            | Recombinant                                                                                                                                      |
| Species           | Androctonus mauritanicus                                                                                                                         |
| Sequence          | GVEINVKCSG SPQCLKPCKD AGMRFGKCMN RKCHCTP<br>Molecular Formula : C <sub>165</sub> H <sub>271</sub> N <sub>53</sub> O <sub>48</sub> S <sub>8</sub> |

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab57664** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

|      |             |
|------|-------------|
| Form | Lyophilized |
|------|-------------|

### Preparation and Storage

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| Stability and Storage | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.                    |
| Reconstitution        | Dissolve 1 µg in 0.24 ml of any conventional buffer for a stock solution of 1 µM. |

### General Info

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Relevance             | Kaliotoxin1 was originally isolated from the venom of the scorpion <i>Androctonus mauretanicus mauretanicus</i> . It belongs to the α-KTX-3.1 scorpion toxin family, having three disulfide bridges. Kaliotoxin1 is a potent inhibitor of large conductance Ca <sup>2+</sup> -activated K <sup>+</sup> -channels (KCa1.1) and blocks voltage-dependent K <sup>+</sup> -channels, mainly Kv 1.1, Kv1.2 and Kv1.3. It also binds to the dendrotoxin sensitive voltage-dependent potassium channel. |
| Cellular localization | Secreted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

## **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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