

# Recombinant Full Length Arabidopsis Thaliana Calcium-Activated Outward-Rectifying Potassium Channel 1(Kco1) Protein, His-Tagged

**Cat. No.** RFL30684AF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Arabidopsis thaliana Calcium-activated outward-rectifying potassium channel 1(KCO1) Protein (Q8LBL1) (1-363aa), fused to N-terminal His tag, was expressed in E. coli.                                                                                                                                                                                                          |
| <b>Species</b>          | Arabidopsis thaliana                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | Full Length (1-363)                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MSSDAARTPLLPTEKIDTMAQDFNLNSRTSSSRKRRLRRRSAPRGDCMYNDDVKI<br>DEPP PHPSKIPMFSDLNPNLRRVIMFLALYLTIGTLCFYLV RDQISGHKTSGVVDALY<br>FCIVTM TTVGYGDLVPNSSASRLLACAFVFSGMVLVGHLLSRAADYLVEKQEALLVR<br>AFHLRQSFG PTDILKELHTNKLRYKCYATCLVLVLFIVGTIFLVMVEKMPVISAFYCV<br>CSTVTTLGYG DKSFNSEAGRLFVFWILTSSICLAQFFLYVAELNTENKQRALVKWV<br>LTRRITNNDLEAA DLDEDGVVGAAEFIVYKLKEMGKIDEKDISGIMDEFEQLDYDESG<br>TLTTSDIVLAQTTSQ IQR |
| <b>Purity</b>           | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                             |
| <b>Notes</b>            | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C                                                                                                                                                                                                                                                                                                                         |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

for up to one week.

**Storage**

Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.

**Storage Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## GENE INFORMATION

**Gene Name**

TPK1

**Synonyms**

TPK1; KCO1; At5g55630; MDF20.7; Two-pore potassium channel 1; AtTPK1; Calcium-activated outward-rectifying potassium channel 1; AtKCO1

**UniProt ID**

[Q8LBL1](#)

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