

# Recombinant Full Length Bradyrhizobium Sp. C4-Dicarboxylate Transport Protein 1(Dcta1) Protein, His-Tagged

**Cat. No.** RFL7939BF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Bradyrhizobium sp. C4-dicarboxylate transport protein 1(dctA1) Protein (A4YQF7) (1-439aa), fused to N-terminal His tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Bradyrhizobium sp.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Full Length (1-439)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MSATTPAAAAPKKPFYRVLYIQVLVAIVLGIVGWLWPEIGKNDWIKALGDGFVKLIK<br>MV IAPVIFCTVVSGIAHVSEVKKVGRVAIKALIYFEIVSTFALALGLIVANVIQPGAGFQ<br>GQ TNAAAVANYAKQASEMKSVDVFLHIIPDTVVGAFAGQGEILQVLLFSILFGIALMSL<br>GERG HTMRAFVDDAAHAIFGVIAIVVKAAPIGAFGAMAFTIGRYGPQALGNLAGLIAT<br>FYLTAL AFVIIVLGGIARIAGFSIFKFLTYIKDELLIVLGTSSSESALPQMMEKLERLGCS<br>KPVVG LVVPTGYSFNLDGTNIYMTLATLFIAQAMNVHLSFGEQITILLVAMLTSGAS<br>GITGAGF ITLAGTLAAVRPELVPGMAIVLGIDKFMSECRALTNLCGNGVACVIVAWW<br>EGELDRDKLR AALDRDIDPSDVEVAVTTG |
| <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                                                                                                                                                                                                                                                                                                                                                                                                           |

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | for up to one week.                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>        | Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                              |
| <b>Storage Buffer</b> | Tris/PBS-based buffer, 6% Trehalose, pH 8.0                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Reconstitution</b> | 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

|                   |                                                        |
|-------------------|--------------------------------------------------------|
| <b>Gene Name</b>  | dctA1                                                  |
| <b>Synonyms</b>   | dctA1; BRADO2301; C4-dicarboxylate transport protein 1 |
| <b>UniProt ID</b> | <a href="#">A4YQF7</a>                                 |

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