

Protocatechuate 3,4-Dioxygenase, Bacteria

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

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| Description | Protocatechuate 3,4-Dioxygenase, Bacteria is a type of dioxygenase, specifically a non-heme iron dioxygenase. It catalyzes the cleavage of the aromatic ring of 3,4-dihydroxybenzoate, incorporating both atoms of molecular oxygen into the compound to form β -carboxy-cis,cis-muconate. This enzyme plays a pivotal role in the β -keto adipate pathway and is present in marine bacteria related to Roseobacter. Protocatechuate 3,4-Dioxygenase can also be isolated from <i>Pseudomonas aeruginosa</i> . |
| In vitro | Protocatechuate 3,4-Dioxygenase, Bacteria catalyzes the cleavage of the aromatic ring of 3,4-dihydroxybenzoate, incorporating two oxygen atoms from molecular oxygen into the compound to form β -carboxy-cis,cis-muconate. This enzyme is crucial in the β -keto adipate pathway. It can be found in marine bacteria related to Roseobacter and can be isolated from <i>Pseudomonas aeruginosa</i> . |

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