

ABTS (diammonium salt)

Catalog No: tcsc3015



Available Sizes

Size: 1g



Specifications

CAS No:

30931-67-0

Formula:

$C_{18}H_{24}N_6O_6S_4$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

H₂O : ≥ 50 mg/mL (91.13 mM)

Alternative Names:

AzBTS-(NH₄)₂

Observed Molecular Weight:

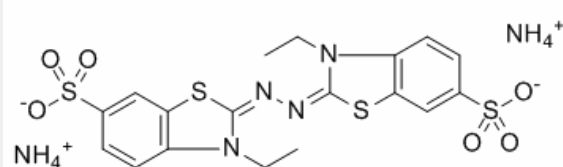
548.68

Product Description

ABTS diammonium salt is a substrate for horseradish peroxidase (HRP) conjugate.

In Vitro: A micro-technique of enzyme-linked immunosorbent assay (ELISA) using ABTS, as a substrate for HRP conjugate is studied. In a comparative study among 4 substrates, namely; 5-aminosalicylic acid (5AS), O-phenylenediamine (OPD), O-tolidine (OT) and ABTS, for HRP in terms of sensitivity, ABTS is the most sensitive, stable and the best in visuality by its bluish-green color^[1]. ABTS is a

typical peroxidase substrate. For purification and characterization peroxidase positive transformants are cultivated in large scale (XL) under conditions that yield active protein in the culture supernatant. After 160 h cultivation an activity of 55,000 U/L in relation to the substrate ABTS is achieved and the supernatant containing the peroxidase is harvested. With ABTS as substrate the peroxidase activity falls significantly when the H₂O₂ concentration rose above 0.125 mM, indicating that the enzyme is inhibited by H₂O₂. Maximum reaction rates depending upon substrate tested reach values between 31.2 and 125 μM^[2].



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