

CA3, 1-260aa, Human, E.coli

Cat.NO.: TP01392

3th Edition

Synonyms:Carbonic anhydrase III, CAIII, Car3.

Description:CA3, also known as carbonic anhydrase III, is an enzyme that catalyses rapid conversion of carbon dioxide to bicarbonate and protons ($\text{CO}_2 + \text{H}_2\text{O} = \text{HCO}_3 + \text{H}^+$). This protein is involved in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption and the formation of aqueous humor, cerebrospinal fluid, saliva and gastric juice.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT

Molecular Weight:29.5 kDa (260aa)

Sequences:

MAKEWGYASHNGPDHWHELFPNAKGENQSPIELHTKDIRHDPQLPWSVSYDGGS AKTILNNGKTCRVVFD DTY
DRSMLRGGPLPGPYRLRQFHLHWGSSDDHGSEHTVDGVKYAAELHLVHWNPKYNTFKEALKQRDGI AVIGIFLKIG
HENG EFQIFLDALDKIKTKGKEAPFTKFDPSCLFPACRDYWTYQGSFTTPPCEECIVWLLLKEPMTVSSDQMAKLRS
LLSSAENEPPVPLVSNWRPPQPINNRVVRASFK

Purity:> 95% by HPLC

Concentration:> 90% by SDS - PAGE

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.